

REPORTS

OF THE

TOWN OFFICERS OF MELROSE,

FOR THE

FINANCIAL YEAR ENDING DECEMBER 31, 1878.



BOSTON :

L. B. WILDER & CO., 73 FEDERAL STREET.

1879.

TOWN OFFICERS FOR 1878-79.

Selectmen, Overseers of the Poor, and Highway Surveyors.

NATHAN D. BLAKE.

HENRY G. FIELDS.

CHARLES H. EDMONDS.

Town Clerk.

JOHN LARRABEE.

Treasurer.

✓ GEORGE NEWHALL.

Collector.

JOHN R. JONES.

Assessors.

JAMES C. CURRIER.

CHARLES T. STEVENS.

HENRY A. LEONARD.

Water Commissioners.

| | |
|---------------------------|--------------------|
| ✓ JOSEPH D. WILDE | Term expires 1881. |
| JOSEPH R. SIMONDS | “ “ 1880. |
| W. IRVING ELLIS | “ “ 1879. |

Commissioners of Water-Loan Sinking-Fund.

| | |
|-------------------------|--------------------|
| DANIEL RUSSELL | Term expires 1881. |
| ROYAL P. BARRY | “ “ 1880. |
| JOHN W. FARWELL | “ “ 1879. |

School Committee.

| | |
|--------------------------------------|--------------------|
| ROYAL P. BARRY, <i>Chairman</i> . . | Term expires 1881. |
| LAFAYETTE BURR, <i>Secretary</i> . . | “ “ 1880. |
| MOSES S. PAGE | “ “ 1880. |
| MISS PHÆBE A. NORRIS . . | “ “ 1879. |
| ✓ MRS. ANN M. KUNHARDT . . | “ “ 1879. |
| EVERETT W. BURDETT | “ “ 1879. |

TOWN OFFICERS FOR 1878-79.

Trustees of the Public Library.

FREDERIC KIDDER. ELBRIDGE H. GOSS. CHARLES C. BARRY.
HANNAH LYNDE. ADDIE A. NICHOLS.

Auditors.

JOHN R. NORTON. FRANK E. ORCUTT.

Constable.

ANSEL B. PIERCE.

Representative in the General Court.

JOSEPH D. WILDE.

Engineers of the Fire Department.

ARTHUR E. WORTHEN, *Chief*. RICHARD WHOWELL, *Clerk*.
HENRY BARRON.

Measurers of Wood and Bark, Weighers of Hay and Coal.

SETH E. BENSON. JAMES D. LITTLEFIELD.

Surveyor of Lumber.

HENRY A. LEONARD.

Committee on Cemeteries.

GEO. NEWHALL. NATHANIEL HOWARD. JOHN LARRABEE.

Field-Drivers.

OTIS HOWARD. HORACE W. CUSHMAN. FRANK GIBBONS.
HENRY B. NEWHALL.

Fence-Viewers.

✓ AARON GREEN. CHARLES T. STEVENS.

Police Officers.

A. B. PIERCE. ✓ J. D. LITTLEFIELD.
H. C. RICHARDSON. H. W. CUSHMAN.
H. B. NEWHALL. HENRY ROBINSON.
S. F. BARRETT.

CONTENTS.

| | PAGE. |
|---|-------|
| REPORT OF SELECTMEN | 7 |
| REPORT OF BOARD OF HEALTH | 15 |
| REPORT OF THE TOWN CLERK | 16 |
| APPROPRIATIONS, 1878 | 20 |
| FINANCIAL STATEMENT | 22 |
| School Contingent Fund | 24 |
| Support of Poor | 26 |
| Contingent Expenses | 31 |
| Fire Department | 32 |
| Highways | 35 |
| Melrose Water Fund | 36 |
| Town Hall | 37 |
| Drainage | 38 |
| Wyoming Cemetery | 39 |
| State Aid | 40 |
| Town Officers | 41 |
| Police | 42 |
| Public Library | 42 |
| Street Lights | 42 |
| Armory Rent | 43 |
| Counsel Fees | 43 |
| Relief to Soldiers | 44 |
| Drainage, Emerson Street | 45 |
| Guide-boards | 46 |
| Interest | 46 |
| Sidewalks | 47 |
| REPORT OF COLLECTOR | 50 |
| REPORT OF FIRE ENGINEERS | 51 |
| REPORT OF THE TOWN TREASURER | 54 |
| Reduction of Town Debt | 55 |
| Statement of the Town Debt | 57 |
| Treasurer's Account | 59 |
| REPORT OF THE WATER COMMISSIONERS | 63 |
| Report of the Superintendent | 68 |
| Water Rates | 74 |
| REPORT OF THE WATER LOAN SINKING FUND COMMISSIONERS | 76 |

CONTENTS.

| | PAGE. |
|--|-------|
| REPORT OF THE PUBLIC LIBRARY | 81 |
| REPORT OF THE SCHOOL COMMITTEE | 89 |
| School Regulations | 117 |
| School Statistics | 120 |
| Report of Musical Instructor | 123 |
| ASSESSORS' REPORT FOR 1878 | 129 |

REPORT OF SELECTMEN.

THE selectmen herewith submit, for the inspection of the citizens, their Annual Report.

The by-laws of our town, approved by the Superior Court, April 18, 1878, provide that our financial year shall commence Jan. 1 in each year, and end with the last day of December following. Consequently this report covers only the transactions of the town for the past ten months, viz., from March 1, 1878, to Jan. 1, 1879; with the exception of the salaries of the town officers, which have been paid for the full year.

POOR.

The whole number, more or less aided, for the ten months ending Dec. 31, is 147. This includes the insane in the hospitals, the truants at Monson, and all who are chargeable to other towns or to the State. Of this number, 18 have received full support for the whole or a part of the term. Of the above, 123 have legal settlements in this town. There have been six in the hospitals for the insane; but one has been discharged, and one has died, leaving four. There are three truant boys at the State Primary School at Monson, at an expense of \$50 a year each.

Seven hundred and fourteen tramps have been lodged in the lock-up for the ten months ending Dec. 31. The next two months will probably increase the number to nearly or quite 1,000, which is nearly double that of any preceding year. This may be attributed largely to the stringent act of the legislature of the adjoining

State of New Hampshire, which amounts to nearly a total prohibition of the tramp within their borders, and which drives them upon new circuits, many of them, doubtless, within our own State. We earnestly recommend to our honorable representatives to the General Court, to favor, if possible, a similar enactment, in self-defence against this horde of itinerants. There have been several casualties within the year, which have increased the expense in this department nearly \$800, and which did not of course enter into our calculations for the year's appropriation. We allude to the death of Mr. Kelly, and to the subsequent insanity of his wife, which threw a large family of children upon the town for support until they could be otherwise provided for. This caused an expense of \$237.86. Also the Waitt tragedy—the funeral expenses, the details of care, provisions, and settlement of the children—has cost thus far \$231.20. And we also refer to the long and expensive sickness of Charles Holbrook. A portion of the above amounts, it is expected, will be reimbursed to the town upon the settlement of those estates.

It will be seen, that there has been no marked improvement in the condition of the poor since our last annual report, when there were 126 legal settlements reported. We feel called upon, in this report, in justice to ourselves and to the disbursing officer, to say to those who feel aggrieved, and who have a right to *complain* of the unfairness with which so large a share of this fund falls to the *unworthy* in its distribution,—that this is a difficulty from which, under existing laws, it is impossible to extricate ourselves. Under the pressure of the times, and the burden of taxation which we are feeling so heavily, we are not surprised to hear, so often, many of our citizens complaining *sharply* and *bitterly* against those who in prosperous times were improvident, and heedless of their future needs, and of those who have led dissolute and debauched lives, who in some instances have laid bare and desolate their own homes, throwing all who were dependent upon them upon the public charity for support,—that such must

now demand to share in those fruits of honest toil which they have borne no part in earning, but which others of industrious, temperate, and frugal habits have striven long and hard to obtain for themselves.

It is true that *all* are placed under responsibility, which, if recognized and borne alike by all, would render such inequality and injustice impossible. But the poor-law deals in existing facts, and not in morals. It is plainly gracious alike to all who *suffer from want*, and does not discriminate between these and the unfortunate but worthy poor with whom we cheerfully share our means. The immediate dependence of those who fall into sickness is at present noticeable beyond that of any previous time. We have several expensive cases upon our hands at the present time. All means of living without constant employment are exhausted with a large percentage of our citizens. The town has always voted cheerfully the several amounts which we have called for in this department, and for which we have always hoped to carry it through to the end of the year. We know that your united voice is to *take good care of the poor*; and we may, perhaps, for this reason, have been more ambitious to reach all cases of actual suffering, within our province to relieve, than we have to keep the expense within the limits of certain appropriations; but we have, in our judgment, dispensed your charities as prudently as the needs of the worthy poor would admit of, without stinting them.

HIGHWAYS.

Our streets, as usual, have required a great deal of care. The frequent and violent rains of the past year have washed and gullied them badly in many places, requiring frequent repairing. Many streets out of the course of constant travel, we have not been able to give the care to that they need and should have, and which they must have before long; the necessary expenses constantly needed on the main thoroughfares completely using up our

moderate appropriations. What has been done, we have endeavored to have done thoroughly.

We have employed Mr. James Marshall to superintend the work ; and we believe he has performed his duties faithfully, and that the men he has employed have endeavored as faithfully to second him in his efforts.

DRAINAGE.

At the Annual Town Meeting in March last, the Hon. D. W. Gooch and F. S. Hesseltine were appointed a committee to act with the selectmen in the matter of draining the westerly end of Emerson Street.

After several meetings of the committee, it was decided that the best and only practicable plan was to put down a suitable pipe through the estate of D. L. Taylor ; and, as we could make no other arrangement than to carry it down the drive-way through his premises, we were obliged to raise the grade of Emerson Street (at its junction with Cedar Park), and to put in a cesspool on Emerson Street, to properly provide for carrying the water over the course adopted. We have used 15-inch drain-pipe. The whole job is done in a thorough manner, and we feel to congratulate the town on the settlement of this much-talked-of and vexatious subject.

The town has deeds from all the parties interested in the estate, which have been duly recorded, and are filed in the office of our town treasurer, giving us the right to enter and maintain this drain whenever necessary.

The breaking down of the drain leading from Dix Pond to Ell Pond Brook necessitated a heavy expense in opening it, and putting in new planking, from its great depth, and the quicksands through which it is laid.

We have caused the Main Brook from Malden line to Ell Pond, and Spot Pond Brook as far as the culvert on Wyoming Avenue, to be thoroughly cleared of all obstructions. The water from Sar-

gent's Hill, down Wyoming Avenue, we have provided for by a concrete gutter on the south side, from Chestnut Street to the cesspool near the railroad, carrying it across Main Street by two concrete depressions.

There are several other places where it is important that attention should be given to drainage; but from lack of funds we have been compelled to delay action till another season.

The subject of drainage is one of the most important ones to be considered by every citizen interested in the welfare of our town; and we would urge upon you the necessity of an appropriation that will allow all necessary work to have immediate attention. In anticipation of some expenses which we know must come, we would recommend the sum of \$600 for the ensuing year.

CONCRETE SIDEWALKS.

At the last Annual Town Meeting the sum of \$1,000 was appropriated "to be expended in laying concrete sidewalks, under the provisions of chapter 303 of the Acts of 1872, &c.;" which, in substance, was a vote to spend \$1,000 of the *town's* money, and assess a like sum upon the abutters adjoining whose premises these walks were laid.

We immediately commenced an examination of these walks in the various towns around us, to ascertain the proper method of building, — the proper materials, cost, &c.; and, after advertising for proposals, adopted a price, which, in our judgment, was as low as was consistent with good work and good material; and decided to give the work to any responsible one of the various contractors wishing to do it at that price, subject to the approval, when finished, of our superintendent of highways.

We have endeavored to select such routes, in expending this money, as would prove of the greatest public convenience; and have succeeded, so far as we have learned, to the general acceptance of the citizens, *without being compelled to assess a dollar;*

the property-holders, in every instance, having the work done of their own accord, by men of their own selection, the town paying one-half the bill after the approval of the work by our superintendent.

We feel that this money has been judiciously expended, and that the construction of these walks has proved of great advantage not only as a convenience to our own citizens, but as an additional proof to strangers visiting our town, with a view to coming among us, that we are alive to the wants of the community.

The continuance of a moderate appropriation each year for this purpose will in a few years provide us with good sidewalks throughout our town.

LIGHTING STREETS, AND ADDITIONAL STREET-LIGHTS.

In making the appropriations at our last Annual Meeting, for this purpose, by some mistake in putting the vote, or in recording the same, we were given but \$1,650, this amount being the same as voted the previous year (although it was voted that the selectmen be instructed to locate ten new posts, for which it was intended to allow an additional \$150).

This mistake was not discovered until too late to correct it.

Upon presentation of the above facts to the "Globe Gas-Light Co., of Boston," who had been furnishing us light for the previous five years, they were induced to accept the situation, and to furnish the additional lamps required, to put them all and keep them in good order, and light them for the year, for the amount recorded as appropriated.

Additional Street-Lamps located since the last Annual Meeting.

One on Vinton Street, at the turn near the railroad.

One on Vinton Street, at the turn near the estate of J. P. Mendum.

One on Main Street, north of estate of C. Demain.

One on Melrose Street, near Arch, under railroad.

One on Upham Street, near house of Charles Parker.

One on Upham Street, near house of Mr. Upham.

One on Poplar Street, corner Pine.

One on Green Street, corner Avon.

One on Mount Vernon Street, near W. P. Sargent's estate.

One on Cedar Park, near J. O. Norris's estate.

One on Otis Street (at the expense of abuttor).

And iron posts have been used exclusively.

FIRE DEPARTMENT.

This department is in its usual first-class condition, with good apparatus, good officers, and good men. Not a fire during the past year. A more full report of this department is made by the engineers.

TOWN HALL.

The expenses incurred upon the Town Hall, aside from fuel, gas, and janitors' bills, have been for the necessary repairs about the building, changing the outside doors to swing outwardly (by order of the Inspector of Public Buildings), ventilating the hall, selectmen and water-commissioners' rooms.

A full report of the receipts and expenditures will be found in the Treasurer's report.

In this connection it seems proper to suggest that an appropriation sufficient to meet the expense of properly laying out the grounds about the building would meet with the hearty approval of a larger portion of the citizens.

STATE AID AND RELIEF TO INDIGENT SOLDIERS.

In accordance with the provisions of a recent statute for the above purpose, we have paid the sums authorized to the various persons presenting the proper vouchers for the same, which sums are to be refunded to the town from the State Treasury.

ARMORY.

We have paid out for rent during the year \$600, all of which has been paid back to the town by the State.

PERAMBULATION OF TOWN LINES.

We met the selectmen of Wakefield, and perambulated the lines between the towns of Wakefield and Melrose, according to the statute of the Commonwealth; found all the bounds in good condition, and properly marked, a joint report of which will be found on record at the office of the Town Clerk.

SUITS.

All suits against the town are now settled, the last one being the case of Malden *vs.* Melrose, for the support of the Waitt brothers, paupers. At the time of our last report, this case had been carried to the Supreme Court on points of law; since which time it has been decided in favor of Malden. At a meeting of the town in the month of September, it was voted to leave the settlement of the case in the hands of the selectmen. After due consideration, the board decided that the best course to pursue was to settle the same, which was done by paying the town of Malden \$2,135.46; which amount the Treasurer borrowed for this purpose, and which must be provided for, by appropriation, at our next March meeting.

All suits and claims in connection with the Taylor estate were ended by the negotiations in connection with the drainage of westerly end of Emerson Street.

Respectfully submitted.

N. D. BLAKE,
H. G. FIELDS,
C. N. EDMONDS,
Board of Selectmen.

REPORT OF BOARD OF HEALTH.

As a result of the thoroughness of the work performed by our predecessors, and the general desire on the part of most of our citizens to take every precaution to preserve the best possible sanitary condition, the labors of this Board during the past year have not been unusually arduous.

Occasional complaints have been made of the unpleasant nearness of pig-pens, cow-yards, improperly protected cesspools, &c., in various locations; but in nearly every instance an unofficial interview with the parties upon whose premises the annoyance existed has resulted in an immediate effort to correct it. It will not probably be necessary to take any further action in more than one or two cases; and we trust that in these all cause for complaint will be removed before the opening of another warm season.

Respectfully submitted.

C. H. EDMONDS,

N. D. BLAKE,

H. G. FIELDS,

Board of Health.

REPORT OF THE TOWN CLERK.

*Statistics of Births, Marriages, and Deaths, in the Town of Melrose,
during the year 1878.*

| | BIRTHS. | MARRIAGES. | DEATHS. |
|-------------------|---------|------------|---------|
| January | 9 | 1 | 13 |
| February | 7 | 1 | 4 |
| March | 5 | 1 | 5 |
| April | 7 | 5 | 6 |
| May | 4 | 2 | 4 |
| June | 6 | 7 | 3 |
| July | 2 | 6 | 5 |
| August | 12 | 3 | 9 |
| September | 7 | 2 | 3 |
| October | 4 | 4 | 3 |
| November | 10 | 5 | 1 |
| December | 9 | 2 | 5 |
| | 82 | 39 | 61 |

BIRTHS.

| | |
|--|----|
| Number registered | 93 |
| Males | 48 |
| Females | 45 |
| Of the above number, | |
| 82 were born in Melrose. | |
| 11 were born in other places. | |
| Born of American parents | 58 |
| foreign parents | 13 |
| American father and foreign mother | 4 |
| foreign father and American mother | 7 |
| | 82 |

INTENTIONS OF MARRIAGES RECORDED.

| | |
|---|----|
| Whole number of couples | 36 |
| Both parties residing in Melrose | 18 |
| But one party residing in Melrose | 18 |

MARRIAGES.

| | |
|--|----|
| Whole number | 39 |
| More than last year | 8 |
| Both parties American | 27 |
| Both parties foreign | 6 |
| Parties American and foreign | 6 |
| | — |
| First marriage of persons | 65 |
| Second marriage of persons | 12 |
| Third marriage of persons | 1 |

78 — 39 couples.

Age of oldest person married, 70 years.

“ youngest “ “ 18 “

DEATHS.

| | |
|-------------------------------|------|
| Whole number | 61 |
| More than last year | 4 |
| Males (married) | 10 |
| Females (married) | 9 |
| Widows | 6 |
| Widowers | 1 |
| Males (single) | 4 |
| Females (single) | 5 |
| Male children | 19 |
| Female children | 7 |
| | — 61 |

Number of dogs licensed in Melrose during the year 1878, 216.

Amount of money paid to County Treasurer as required by law, to be refunded to the town and expended for Public Library, \$427.80.

Number of orders drawn on Town Treasurer, 1,233, amounting to the sum of \$35,712.26.

JOHN LARRABEE,

Town Clerk.

DEATHS REGISTERED IN MELROSE, 1878.

| DATE OF DEATH. | NAMES. | AGE. | | | DISEASE, OR CAUSE OF DEATH. | PLACE OF BIRTH. |
|----------------------|-----------------------------------|--------|---------|-------|--|-----------------|
| | | Years. | Months. | Days. | | |
| January 2. | Anna Baker | 89 | 8 | 27 | Old age | Salem. |
| " 6. | George W. Crocker | 60 | 7 | 9 | Lympho-sarcoma | Falmouth. |
| " 9. | Frank Leonard | 83 | 4 | 9 | Bronchitis and pneumonia | Melrose. |
| " 5. | Richard Price Sprague | 83 | . | . | Purpura and hæmorrhage | North Malden. |
| " 10. | — Singer | 50 | 6 | 16 | S. B. | Melrose. |
| " 12. | Edward A. Small | 2 | 2 | 17 | Aneurism of heart | Hamptden, Me. |
| " 14. | Harvey Briggs Pierce | 21 | 6 | 3 | Eclam. inf. and cap.-bronch. | Melrose. |
| " 18. | Geneva E. Bragdon | 36 | 3 | 20 | Apnoea from coal gas | Belfast, Me. |
| " 20. | Ora M. Bragdon | 96 | 11 | 20 | Apnoea from coal gas and pul. hyperæmia. | Corinth, Me. |
| " 24. | Mary Wilson | 84 | 3 | 7 | Diarrhoea | North Malden. |
| " 27. | Rose Rabbit | 30 | 8 | 9 | Old age | Ireland. |
| " 17. | Mary Emma Norris | 2 | 6 | 14 | Typhoid F. and pneumonia, Croup | Chester, N.H. |
| " 22. | John H. Gray | 16 | 2 | 17 | Leucocy-themia | Melrose. |
| February 9. | Charles H. Morcomb | 89 | 2 | 8 | Hæmorrhagic diathesis | Melrose. |
| " 11. | Charles T. Hayes | 62 | 1 | 3 | Teething (convulsions) | Melrose. |
| " 18. | Garrett McLaughlin | 24 | 3 | 7 | Old age | Seituate. |
| " 20. | Silvester Bowker | 40 | 5 | 18 | Injuries (consumption) Pneumonia tuberculosis | Duxbury. |
| March 6. | Nathaniel K. Hunt | 73 | 7 | 19 | Pneumonia tuberculosis | Melrose. |
| " 12. | Edwin H. Stone | 11 | 1 | 7 | Brain disease | Melrose. |
| " 19. | Isabella Phillips Lewis | 7 | 7 | 19 | Anthrax, pleuritis | Nova Scotia. |
| " 22. | Rebecca E. Vanbuskirk | 7 | 7 | 19 | Premature birth | Melrose. |
| " 31. | Nathan Blake Safford | 7 | 7 | 19 | Paralysis | Seituate. |
| April 11. | Cynthia Curtis | 7 | 7 | 19 | Typhoid fever | Chicago, Ill. |
| " 15. | Mary Alice Dole | 7 | 7 | 19 | Heart disease | Melrose. |
| " 19. | Henry Albert Clark | 7 | 7 | 19 | S. B. | Melrose. |
| " 17. | — Wildes | 7 | 7 | 19 | Debility | Melrose. |
| " 16. | Walter S. Farnsworth | 7 | 7 | 19 | Debility | Melrose. |

| | | | | | | |
|--------------|-------------------------|----|---|----|----------------------------|------------------|
| April 30. | Robert Coburn . | 45 | . | 2 | Tuberculosis pulmonalis | St. John, N.B. |
| May 6. | Margaret C. Powers . | 71 | . | 13 | Apoplexy . | Ireland. |
| " 24. | Frederic Boyd . | 29 | . | . | Pulmonary apoplexy . | Charlestown. |
| " 26. | Susie H. Judkins . | 25 | . | 5 | Anæmia . | Stoneham. |
| " 31. | John O'Connell . | 50 | . | . | Consumption . | Ireland. |
| June 6. | — Bale . | . | . | . | S. B. . | Melrose. |
| " 24. | Charles T. Holbrook . | 21 | . | 24 | Typhoid fever . | Charlestown. |
| " 26. | Ella M. Richardson . | 27 | . | . | Tuberculosis . | South Reading. |
| July 5. | Caroline M. Hatch . | 33 | . | 8 | Phthisis . | Boston. |
| " 7. | John Atwood . | 77 | . | 9 | Paralysis . | Wellsfleet. |
| " 17. | — Sanborn . | . | . | 5 | Asphyxia . | Melrose. |
| " 19. | Sarah J. Snowden . | . | . | 9 | Marasmus . | Boston. |
| " 31. | Walter Spinney Dyer . | 2 | . | 15 | Cholera infantum . | East Somerville. |
| August 2. | Edith Pratt . | 7 | . | 5 | Tuberculosis . | Melrose. |
| " 3. | James M. Gately . | 14 | . | 4 | Railroad accident . | Melrose. |
| " 9. | Gelana S. Hall . | 1 | . | 9 | Congestion of brain . | Melrose. |
| " 12. | Owen Jones McGrillis . | . | . | . | S. B. . | Melrose. |
| " 15. | Pelatah R. Waitt . | 68 | . | . | Gunshot wounds (suicide) . | Malden. |
| " 15. | Elizabeth Waitt . | 45 | . | . | Injury of brain (murder) . | Portland, Me. |
| " 22. | Hannah S. Follansbee . | 56 | . | . | General debility . | Dorchester. |
| " 26. | Fred. D. Littlefield . | 32 | . | 8 | Phthisis pulmonalis . | Cambridgeport. |
| " 28. | Francis Richards . | 67 | . | 12 | Pulmonary embolism . | Boston. |
| Sept'ber 26. | Howard F. Smith . | 2 | . | 9 | Hydrocephalus (hydræmia) . | South Boston. |
| " 28. | Phœbe Lynde . | 87 | . | . | Old age . | Stoneham. |
| " 30. | Murray Ballou . | 2 | . | . | Enteritis . | Boston. |
| October 6. | — Brown . | . | . | . | Premature birth . | Melrose. |
| " 7. | — Parker . | . | . | . | " . | Melrose. |
| " 14. | Polly W. Hayward . | 94 | . | 7 | Old age . | Boxborough. |
| November 3. | Lizzie S. Sargent . | 34 | . | 1 | Septicæmia . | Boston. |
| December 6. | William Andrew O'Berg . | 1 | . | 4 | Membranous croup . | South Boston. |
| " 10. | Ellen Cowhey . | 40 | . | . | Obstruction of bowels . | Ireland. |
| " 11. | Walter R. Ellis . | 3 | . | 2 | Burn . | Melrose. |
| " 19. | Annie P. Robbins . | 37 | . | 11 | Peritonitis . | Belfast, Me. |
| " 21. | Clara Bell Outhouse . | 17 | . | 11 | Pelvic peritonitis . | Sackville, N.B. |

APPROPRIATIONS, 1878.

| | |
|---|-------------|
| For schools, support of | \$11,000 00 |
| Counsel fees (F. S. Hesseltine) | 876 66 |
| School contingent | 1,000 00 |
| Highways | 1,500 00 |
| Sidewalks | 1,000 00 |
| Water (use of) | 2,000 00 |
| Water maintenance | 1,000 00 |
| Deficiencies in accounts, 1877, viz.:— | |
| School contingent | \$800 00 |
| Counsel fees | 542 33 |
| Forest Street | 400 00 |
| Poor fund | 976 11 |
| Town Hall | 527 96 |
| | <hr/> |
| | 3,246 40 |
| Reduction of town debt | 6,000 00 |
| Poor, support of | 4,000 00 |
| Relief of soldiers, or for headstones | 200 00 |
| Fire department | \$2,200 00 |
| New hose | 400 00 |
| | <hr/> |
| | 2,600 00 |
| Street lights | 1,650 00 |
| Public Library, dog tax and | 400 00 |
| Contingent expenses | 800 00 |
| Police | 200 00 |
| Drainage and culverts | 300 00 |
| Town officers' salaries | 1,880 00 |
| Guide-posts | 50 00 |
| Interest on debt | 4,000 00 |
| | <hr/> |
| | \$43,703 06 |

It was voted at the annual meeting, "That the unexpended balances from previous year be added to the appropriations for 1878, and credited to the several departments."

At a special meeting held Sept. 20, 1878, the Treasurer was authorized to borrow the following sums, for the purposes named, the same to be assessed in the taxes of 1879:—

| | |
|---|------------|
| Highways | \$1,000 00 |
| Draining Emerson Street (near D. L. Taylor's) . | 829 19 |
| Settlement of Waitt's case (paupers) | 2,135 46 |
| | <hr/> |
| | \$3,964 65 |

FINANCIAL STATEMENT.

EXPENSES OF PUBLIC SCHOOLS.

PAID TEACHERS' SALARIES TO JAN. 1, 1879.

| | | | | | | | |
|---------------------------|---|---|---|---|---|---|------------|
| Alonzo G. Whitman | . | . | . | . | . | . | \$1,210 00 |
| Mary L. Charles | . | . | . | . | . | . | 170 00 |
| Emma A. J. Bugbee | . | . | . | . | . | . | 575 00 |
| Ellen A. Stone | . | . | . | . | . | . | 120 00 |
| Frances M. Henshaw | . | . | . | . | . | . | 200 00 |
| Frances H. Turner | . | . | . | . | . | . | 120 00 |
| Marie H. Friend | . | . | . | . | . | . | 422 50 |
| Lucy W. Bisbee | . | . | . | . | . | . | 445 00 |
| Julia M. Porter | . | . | . | . | . | . | 445 00 |
| Susan D. Melcher | . | . | . | . | . | . | 405 00 |
| Emma M. Cate | . | . | . | . | . | . | 405 00 |
| Chastine Emerson | . | . | . | . | . | . | 365 00 |
| Louise P. Arnold | . | . | . | . | . | . | 95 00 |
| Mary J. Arnold | . | . | . | . | . | . | 80 00 |
| Alice H. Long | . | . | . | . | . | . | 320 00 |
| Caroline E. Southwick | . | . | . | . | . | . | 320 00 |
| Lydia Mendum | . | . | . | . | . | . | 365 00 |
| Etta Hallowell | . | . | . | . | . | . | 185 00 |
| Myra A. Whitney | . | . | . | . | . | . | 160 00 |
| Sarah E. Pratt | . | . | . | . | . | . | 95 00 |
| Lydia B. Thomson | . | . | . | . | . | . | 175 00 |
| Florence B. Howland | . | . | . | . | . | . | 60 00 |
| Mary M. Gilman | . | . | . | . | . | . | 365 00 |
| Hannah P. Lewis | . | . | . | . | . | . | 325 00 |
| Kate W. Bascom | . | . | . | . | . | . | 160 00 |
| M. W. Bachelder | . | . | . | . | . | . | 160 00 |
| Clara I. Nichols | . | . | . | . | . | . | 144 00 |
| P. A. Norris (substitute) | . | . | . | . | . | . | 5 00 |

\$7,896 50

Music.

| | | | | | | | |
|--------------------|---|---|---|---|---|---|----------|
| Mrs. G. N. Bordman | . | . | . | . | . | . | \$222 50 |
|--------------------|---|---|---|---|---|---|----------|

PAID JANITORS FOR SERVICES TO DEC. 1, 1878.

| | | |
|-----------------------------|----------|----------|
| Augustus Durant | \$206 25 | |
| Orice K. Stebbins | 211 50 | |
| Benjamin Stones | 75 00 | |
| Joseph W. Simonds | 55 00 | |
| Arthur L. Upham | 37 50 | |
| John Singer | 37 50 | |
| | <hr/> | \$622 75 |

FUEL.

| | | |
|---------------------------------------|----------|----------|
| S. E. Benson, wood and coal | \$474 90 | |
| Bugbee & Barrett, coal | 25 00 | |
| Orne Upham, wood | 3 00 | |
| John N. Thomas, wood | 4 00 | |
| John McCarty, charcoal | 10 00 | |
| Aiken & Woodard, charcoal | 4 00 | |
| | <hr/> | \$520 90 |

SCHOOL COMMITTEE.

| | | |
|--|---------|----------|
| Thomas B. Peck, services 10 months | \$58 33 | |
| A. M. Kunhardt, services 8 months | 33 33 | |
| M. W. Currier, services one year | 50 00 | |
| P. A. Norris, services one year | 50 00 | |
| La Fayette Burr, services one year | 50 00 | |
| Moses S. Page, services one year | 50 00 | |
| | <hr/> | \$291 66 |

RECAPITULATION.

| | |
|----------------------------------|------------|
| Teachers' salaries | \$7,896 50 |
| Music-teacher's salary | 222 50 |
| Janitors' services | 622 75 |
| Fuel | 520 90 |
| Committee | 291 66 |

CONTRA.

\$9,554 31

| | | |
|--------------------------------------|-------------|-------------|
| Appropriation for one year | \$11,000 00 | |
| Balance from last year | 413 07 | |
| | <hr/> | \$11,413 07 |
| Amount unexpended | 1,858 76 | |
| | <hr/> | \$11,413 07 |

SCHOOL CONTINGENT FUND.

EXPENDED.

| | |
|---|-----------------|
| J. C. Howes, repairing furnaces, stoves, water-pipes, &c., stock and labor | \$165 94 |
| Joel Atwood, carpenter-work, stock, &c. | 118 80 |
| J. P. Deering & Co., lumber | 88 94 |
| Densmore & Brackett, outside windows | 28 10 |
| George G. Nichols, mason work | 21 87 |
| C. S. Parker & Sons, repairing roof high school house | 31 36 |
| Walter B. Ellis, concrete walks, &c. | 53 63 |
| A. W. Parker, painting | 12 62 |
| T. R. Spear, painting blackboards | 16 00 |
| F. T. & C. E. Palmer, glazing | 3 05 |
| E. O. Howes, painting and glazing | 10 53 |
| R. Sherburne, light of glass | 1 75 |
| Eri Upham, grading grounds Upham Street, and mak- ing wall | 20 00 |
| James Fleming, labor | 8 00 |
| A. G. Whitcomb, furniture, desks, &c. | 232 17 |
| J. L. Hammett, books, reward cards, &c. | 7 05 |
| C. A. Eastman, books and stationery | 103 89 |
| Hooper, Lewis, & Co., pens, &c. | 22 25 |
| Maynard & Noyes, ink | 16 00 |
| Knight, Adams, & Co., books | 2 89 |
| N. J. Bartlett & Co., books | 10 12 |
| Nichols & Hall, books | 3 93 |
| John Larrabee, one thermometer | 50 |
| Tolman & White, printing extra reports | 10 00 |
| Babb & Stephens, printing permits | 1 50 |
| J. P. Baker, printing notices | 1 50 |
| <i>Amount carried forward</i> | <u>\$992 39</u> |

| | | | | | |
|--|--|--|--|------------|------------|
| <i>Amount brought forward</i> | | | | | \$992 39 |
| T. W. Ripley, printing certificates, outlines, &c. | | | | | 14 25 |
| C. E. Keith, tuning and repairing piano | | | | | 2 00 |
| A. B. Pierce, taking census of children | | | | | 21 50 |
| R. P. Barry, sundries furnished | | | | | 8 71 |
| E. W. Burdett, expense | | | | | 4 09 |
| LaFayette Burr, expense | | | | | 4 15 |
| F. A. Packard & Co., stationery | | | | | 5 70 |
| A. E. Burton & Co., dusters | | | | | 5 00 |
| Wakefield Rattan Company, brush mats | | | | | 6 00 |
| Walter Hicks, repairing furniture, &c. | | | | | 40 87 |
| Lawrence, Wilde, & Co., desks, window-shades, &c. | | | | | 53 30 |
| J. H. Daniels, diplomas | | | | | 23 50 |
| C. G. Harris, ribbon for diplomas | | | | | 5 00 |
| H. W. Cushman, services as truant-officer | | | | | 40 63 |
| R. A. Freeman, carting settees and desks | | | | | 30 00 |
| M. S. Page & Co., clocks, &c. | | | | | 15 25 |
| G. P. Reed, cleaning clocks, door-keys, &c. | | | | | 7 50 |
| L. Van Buskirk, repairing poker | | | | | 75 |
| R. T. Huntington, locks and keys | | | | | 2 12 |
| Bugbee & Barrett, brush, brooms, &c. | | | | | 2 50 |
| E. W. Frenz, ruling slates for primary schools | | | | | 5 00 |
| Augustus Durant, sundries furnished | | | | | 3 45 |
| John Singer, sundries furnished | | | | | 3 00 |
| | | | | | <hr/> |
| | | | | | \$1,296 66 |
| Appropriation | | | | \$1,000 00 | |
| Balance from last year | | | | 80 18 | |
| | | | | <hr/> | |
| | | | | \$1,080 18 | |
| Expenditures exceed | | | | 216 48 | |
| | | | | <hr/> | |
| | | | | | \$1,296 66 |

SUPPORT OF POOR.

EXPENDED.

For Groceries, Provisions, Supplies, &c.

| | |
|-----------------------------------|----------|
| Bugbee & Barrett, groceries . . . | \$364 19 |
| L. F. Hinckley, groceries . . . | 363 39 |
| William H. Wells, groceries . . . | 21 00 |
| L. W. Gilman, groceries . . . | 109 50 |
| James Worthen, groceries . . . | 69 00 |
| G. W. Woodman, groceries . . . | 6 00 |
| M. C. Trow, groceries . . . | 26 00 |
| S. H. Nowell, milk . . . | 8 35 |
| George E. Fuller, milk . . . | 19 08 |
| B. R. Upham, milk . . . | 1 44 |

 \$987 95
For Fuel.

| | |
|-------------------------------------|----------|
| S. E. Benson, wood and coal . . . | \$111 52 |
| James Marshall, wood and coal . . . | 75 75 |
| Robert Philpot, wood and coal . . . | 15 23 |
| James Bessant, wood . . . | 13 50 |
| B. R. Upham, wood . . . | 3 00 |

 219 00
For Rents.

| | |
|---|---------|
| Jeremiah Crowley, 3 months to John Con- nell | \$15 00 |
| Sarah A. Lynde, 2 months to H. F. Simonds | 10 00 |
| M. J. Ellis, 11 months to Sanborn family | 88 00 |
| Dexter Bryant, 6 months to Edward Moore | 30 00 |
| John Warren, 5 months to F. Hamilton . | 37 50 |

Amounts carried forward . . \$180 50

 \$1,206 95

| | | |
|---|----------|------------|
| <i>Amounts brought forward</i> | \$180 50 | \$1,206 95 |
| Thomas Mahan, 3 months to E. Fitzhenry | 18 00 | |
| John Gately, one year to William Dutton | 78 00 | |
| A. W. Lynde, 2 months to Mrs. Stinson | 4 00 | |
| Mary Henney, one year to Ellen McCarty | 60 00 | |
| B. R. Upham, one year to Mrs. E. C. Grover | 36 00 | |
| Edward Duffy, 5 months to Mrs. Callahan | 25 00 | |
| Charles Larrabee, 25½ weeks to George W. Grover | 25 50 | |
| | | 427 00 |

For Relief of Persons out of Town.

| | | |
|--|---------|--------|
| City of Boston, aid rendered | \$78 13 | |
| City of Lynn, aid rendered to Mrs. H. P. Hollis | 36 00 | |
| City of Somerville, aid rendered | 76 62 | |
| Town of Woburn, aid rendered to Harris family | 62 75 | |
| Town of Stoneham, aid rendered to Jeremiah Martin and family | 51 25 | |
| Town of Malden, aid rendered | 68 50 | |
| Edward Dean & Co., supplies furnished Charles Howard | 125 57 | |
| J. B. Kimball & Son, supplies furnished Charles Howard | 45 00 | |
| | | 543 82 |

Medical Attendance, Medicine, Nursing Sick, &c.

| | | |
|---|----------|------------|
| J. Vincent Smith, M.D., attendance | \$82 00 | |
| Julius S. Clark, M.D., attendance | 54 00 | |
| J. Richmond Barss, M.D., attendance | 9 00 | |
| John Larrabee, medicine | 46 73 | |
| S. C. Atwood, medicine | 2 00 | |
| P. M. Dewolfe, medicine | 4 02 | |
| Francis Fountain, care of George Lynde | 112 00 | |
| J. Casey, care of Henry Kramer | 9 00 | |
| James A. Lambert, care of Charles T. Holbrook | 114 00 | |
| <i>Amounts carried forward</i> | \$432 75 | \$2,177 77 |

| | | |
|--|----------|------------|
| <i>Amounts brought forward</i> | \$432 75 | \$2,177 77 |
| A. P. Dalrymple, care of Charles T. Holbrook | 14 00 | |
| O. Emerson, care of Charles T. Holbrook, | 1 00 | |
| William Murphy, care of Wm. Matthews, | 6 00 | |
| Adeline Rowe, care of Mrs. E. C. Grover, | 6 00 | |
| | <hr/> | 459 75 |

For Support of Insane Persons.

| | | |
|--|---------|----------|
| Commonwealth of Massachusetts (David Heaton) | \$21 00 | |
| Worcester Lunatic Hospital | 498 08 | |
| Asylum for Chronic Insane, at Worcester, | 528 43 | |
| A. B. Pierce, removing Matthews and Mrs. Kelly | 22 21 | |
| J. A. Lambert, expense to Worcester | 5 90 | |
| | <hr/> | 1,075 62 |

Burial Expenses.

| | | |
|---------------------------|---------|--------|
| A. B. Pierce | \$70 00 | |
| Cooley & Jacobs | 16 00 | |
| Peak Brothers | 40 00 | |
| J. A. Lambert | 45 30 | |
| | <hr/> | 171 30 |

Board and Clothing.

| | | |
|--|----------|--|
| E. A. Alden, board Charles T. Holbrook, | \$144 00 | |
| J. W. Simonds, board Abigail Connor 39 weeks | 117 00 | |
| J. W. Simonds, clothing for Abigail Connor | 8 50 | |
| Henry Woodward, board Lucy Barron 8 months | 72 00 | |
| Samuel Woodward, board Lucy Barron 2 months | 18 00 | |
| Children's Friend Society, board Arthur Grover 26 weeks | 52 00 | |
| James D. Kyle, board and clothing children of P. R. Waitt | 43 45 | |
| Abbie Barter, board of Mrs. L. G. Davis and child 47 weeks | 141 00 | |
| | <hr/> | |

| | | |
|--------------------------------|----------|------------|
| <i>Amounts carried forward</i> | \$595 95 | \$3,884 44 |
|--------------------------------|----------|------------|

FINANCIAL STATEMENT.

29

| | | |
|---|----------|------------|
| <i>Amounts brought forward</i> . . . | \$595 95 | \$3,884 44 |
| Abbie Barter, board of Phœbe E. Waitt 14 weeks | 56 00 | |
| Abbie Barter, clothing for Phœbe E. Waitt | 1 00 | |
| C. W. Polk, dry goods | 5 97 | |
| | <hr/> | 658 92 |

Sundries.

| | | |
|---|--------|------------|
| George G. Lunt, meals to tramps . . . | \$9 59 | |
| S. A. Stevens, supplies | 88 00 | |
| George Newhall, boots, shoes, and rubbers | 42 90 | |
| J. C. Howes, stovepipe and labor . . . | 2 30 | |
| A. B. Pierce, services and expenses . . | 29 45 | |
| Josiah R. York, sawing wood | 7 57 | |
| F. R. Upham, use of team | 2 00 | |
| George W. Bartlett, carriage hire . . . | 16 50 | |
| Obed Ramsdell, cash allowance (re- funded) | 50 00 | |
| Eliza Fuller, cash allowance (refunded) . | 110 00 | |
| H. G. Fields, expenses paid | 10 46 | |
| Overseers of Poor, aid to Stephen Hyde . | 184 50 | |
| Overseers of Poor, aid to Mrs. Williams . | 2 00 | |
| | <hr/> | 555 27 |
| | | <hr/> |
| | | \$5,098 63 |

CONTRA.

| | |
|-------------------------|------------|
| Appropriation | \$4,000 00 |
|-------------------------|------------|

RECEIPTS.

| | | |
|---|----------|------------|
| From City of Boston | \$158 87 | |
| “ Fitchburg | 60 00 | |
| “ Lynn | 24 48 | |
| State Treasurer | 119 00 | |
| Town of Malden | 26 50 | |
| “ Nantucket, for aid rendered to Obed Ramsdell | 50 00 | |
| “ Provincetown, for supplies to F. Hamilton | 188 67 | |
| | <hr/> | |
| <i>Amounts carried forward</i> | \$627 52 | \$4,000 00 |

FINANCIAL STATEMENT.

| | | |
|--|----------------|------------|
| <i>Amounts brought forward</i> | . . . \$627 52 | \$4,000 00 |
| From Town of Norton, for supplies to Eleanor Tucker | . . . 38 00 | |
| From H. G. Fields, amount refunded by persons for aid received | . . . 43 50 | |
| | <hr/> | \$709 02 |
| Expenditures exceed appropriations and receipts | . | 389 61 |
| | | <hr/> |
| | | \$5,098 63 |

The following claims have been presented,
and are now due : —

| | | |
|--|-------------------|------------|
| From State | \$90 22 | |
| City of Boston | 97 25 | |
| “ Fitchburg | 50 00 | |
| Town of Malden | 240 00 | |
| “ Medford | 6 50 | |
| “ Norton | 31 80 | |
| “ Woburn | 17 33 | |
| Estates P. R. & Phœbe Waitt | . . . 231 20 | |
| For support of children of M. F. Kelly | . . . 68 50 | |
| For support of Mrs. Annie Kelly | . . . 169 36 | |
| | <hr/> | \$1,002 16 |

CONTINGENT EXPENSES.

| | |
|------------------------------|--------------------|
| Appropriation | \$800 00 |
| Balance unexpended last year | 110 98 |

RECEIPTS.

For auctioneers' licenses :

| | | |
|--------------------------------|------------------|----------|
| John R. Jones | \$2 00 | |
| George Stockwell | 2 00 | |
| Moses Briggs | 2 00 | |
| | <hr/> | |
| <i>Amounts carried forward</i> | . . . \$6 00 | \$910 98 |

| | | |
|---|--------|----------|
| <i>Amounts brought forward</i> | \$6 00 | \$910 98 |
| For auctioneer's licenses, <i>continued</i> : | | |
| Ai Libby | 2 00 | |
| H. C. Richardson | 2 00 | |
| James E. Spear | 2 00 | 12 00 |
| For use of lock-up | | 2 00 |
| From Treasurer Crystal Lake Fishing Association . | | 5 00 |
| | | <hr/> |
| | | \$929 98 |

EXPENDED.

| | |
|--|----------|
| Tolman & White, printing annual reports, 1878 . . | \$217 00 |
| Babb & Stephens, printing warrants, &c. . . . | 12 25 |
| J. P. Baker, printing warrants, tax-bills, notices, by-laws, &c. | 56 00 |
| J. P. Baker, advertising | 14 00 |
| T. W. Ripley, printing notices, &c. | 6 00 |
| A. W. Haskell, tax-collector's book | 3 00 |
| H. A. Leonard, stationery for assessors | 5 24 |
| William A. Davis, stationery and printing . . . | 3 00 |
| Knight, Adams, & Co., stationery | 3 95 |
| C. K. Darling, record-book | 4 50 |
| Doane & Greenough, record-book | 5 50 |
| George B. Sargent, steel stamps and brands . . | 5 25 |
| Clerk of Courts, making record of by-laws . . | 7 00 |
| F. E. Orcutt, services settling with Coll. for 1875 . | 15 00 |
| Henry N. Cass, framing map | 1 00 |
| H. G. Fields, care of tramps to July 1, 1878, ringing bell, &c. | 19 59 |
| A. B. Pierce, returning 45 deaths, 1878 | 11 25 |
| Nathaniel Howard, returning 9 deaths, 1878 . . | 2 25 |
| P. O. Masse, repairing hearse harness | 80 |
| Henry Barron, expressing | 50 |
| Bugbee & Barrett, matches | 60 |
| P. M. Dewolfe, message by telegraph | 29 |
| H. C. Richardson, removing dead horse | 2 00 |
| Frank A. Grover, posting bills | 1 50 |
| G. W. Bartlett, team for assessors | 3 00 |
| C. H. Austin, team for selectmen | 3 00 |
| | <hr/> |
| <i>Amount carried forward</i> | \$403 47 |

| | |
|--|----------|
| <i>Amount brought forward</i> | \$403 47 |
| Fuller & Whitney, services, making surveys and plans, vicinity of Taylor's greenhouse | 31 75 |
| John Larrabee, services, compiling annual reports, 1878, keeping register of voters, stationery fur- nished, &c. | 52 17 |
| Chick & Heaton, blasting ledge, Oakland Street | 62 25 |
| D. L. Taylor, damages from blasting ledge, Oakland Street | 20 00 |
| A. B. Pierce, services distributing warrants, serving notices, &c. | 44 00 |
| Augustus Durant, ringing bell Feb. 22 and July 4 | 4 00 |
| O. K. Stebbins, ringing bell Feb. 22 and July 4 | 4 00 |
| Edward P. Fuller, ringing bell Feb. 22 | 2 00 |
| Samuel Lear, ringing bell July 4 | 2 00 |
| S. L. Walton, ringing bell July 4 | 2 00 |
| Battery C, M.V.M., firing salute July 4 | 50 00 |
| Paid for recording deeds, right of way through Taylor estate | 1 85 |
| | <hr/> |
| | \$679 49 |
| Balance unexpended | 250 49 |
| | <hr/> |
| | \$929 98 |

FIRE DEPARTMENT.

| | |
|---|------------|
| Appropriation | \$2,200 00 |
| Appropriation for new hose | 400 00 |
| Balance from last year | 3 39 |
| Received for old windows sold | 4 40 |
| | <hr/> |
| | \$2,607 79 |

EXPENDED.

CONTINGENT EXPENSES.

| | |
|---|----------|
| Board of Engineers, services to April 1, 1878 | \$60 00 |
| Andrew J. Morse & Son, 600 feet hose | 400 00 |
| | <hr/> |
| <i>Amount carried forward</i> | \$460 00 |

| | |
|---|----------|
| <i>Amount brought forward</i> | \$460 00 |
| Henry Barron, expressing | 2 00 |
| Scrannage Bros. & Cook, nozzles | 24 00 |
| Bugbee & Barrett, inkstand and stationery | 1 50 |
| | <hr/> |
| | \$487 50 |

BIGELOW HOOK AND LADDER CO., No. 1.

| | |
|--|----------|
| Services of 25 men 9 months to Nov. 1, 1878 | 375 00 |
| C. W. Burnham, services as steward, 9 months | 30 00 |
| Joseph Edwards, repairing ladders | 9 00 |
| Thomas McCoubry, blacksmithing | 3 40 |
| Bugbee & Barrett, sundries | 1 73 |
| John Fitzpatrick, whitewashing | 8 00 |
| Samuel Perrins, plating handles of truck | 15 00 |
| Walter B. Ellis, repairing concrete | 3 00 |
| F. T. & C. E. Palmer, painting | 9 50 |
| J. C. Howes, gas fixtures, piping, &c. | 16 79 |
| Bugbee & Barrett, one ton coal | 6 50 |
| | <hr/> |
| | \$477 92 |

RUSSELL HOSE CO., No. 1.

| | |
|---|----------|
| Services of 15 men 9 months to Nov. 1, 1878 | \$225 00 |
| R. M. Rand, services as steward, 9 months to Nov. 1, 1878 | 30 00 |
| M. & M. Gas Co., 5,400 cubic feet of gas | 18 90 |
| Bugbee & Barrett, sundries | 4 25 |
| Brown & Murphy, curtains | 7 90 |
| J. C. Howes, stock and labor | 13 43 |
| P. J. Finn, plastering | 13 00 |
| Richard Whowell, carpenter work and stock furnished | 36 57 |
| Albon W. Parker, painting | 13 60 |
| Phillips, Taylor, & Co., 3 tons coal | 17 25 |
| | <hr/> |
| | \$379 90 |

N. D. BLAKE HOSE CO., No. 2.

| | |
|---|----------|
| Services of 15 men 9 months to Nov. 1, 1878 | \$225 00 |
| Frank Gibbons, services as steward 9 months to Nov. 1, 1878 | 30 00 |
| L. W. Gilman, rent 1 year | 150 00 |
| | <hr/> |
| <i>Amount carried forward</i> | \$405 00 |

| | | |
|--|--|----------|
| <i>Amount brought forward</i> | | \$405 00 |
| Bugbee & Barrett, sundries | | 1 72 |
| Joseph Edwards, painting and lettering | | 4 00 |
| Joseph Edwards, making hose sled | | 21 00 |
| Thomas McCoubry, ironing hose sled | | 16 00 |
| M. & M. Gas Co., 2,000 cubic feet gas | | 7 00 |
| F. T. & C. E. Palmer, glazing | | 1 00 |
| Richard Whowell, building coal-bin | | 2 37 |
| Phillips, Taylor, & Co., 2 tons coal | | 11 50 |
| S. E. Benson, coal | | 3 50 |
| | | <hr/> |
| | | \$473 09 |

HIGHLAND HOSE CO., No. 3.

| | |
|--|----------|
| Services of 15 men 9 months to Nov. 1, 1878 | \$225 00 |
| Samuel Lear, services as steward 9 months to Nov. 1, 1878 | 30 00 |
| S. E. Benson, coal and wood | 6 75 |
| John Singer, jun., sundries | 4 05 |
| Bugbee & Barrett, sundries | 3 82 |
| A. W. Parker, painting | 2 85 |
| J. C. Howes, pipe, coal-hod, &c. | 2 00 |
| Joseph Edwards, repairing and painting carriage, &c. | 41 50 |
| Thomas McCoubry, ironwork | 10 32 |
| Board of Engineers, keys, brush, &c., furnished | 1 08 |
| Clark & Phillips, 1 roll | 75 |
| P. J. Finn, whitewashing | 5 00 |
| Hunneman & Co., repairing hose | 2 75 |
| Phillips, Taylor, & Co., 2 tons coal | 11 50 |
| | <hr/> |
| | \$347 37 |

RECAPITULATION.

| | | |
|---------------------------------|------------|------------|
| Contingent expenses | \$487 50 | |
| Bigelow H. & L. Co. | 477 92 | |
| Russell Hose Co. | 379 90 | |
| N. D. Blake Hose Co. | 473 09 | |
| Highland Hose Co. | 347 37 | |
| | <hr/> | |
| | \$2,165 78 | |
| Appropriations | | \$2,600 00 |
| Unexpended balance and receipts | | 7 79 |
| To credit of fund | 442 01 | |
| | <hr/> | <hr/> |
| | \$2,607 79 | \$2,607 79 |

HIGHWAYS.

EXPENDED.

| | | |
|--|------------|------------|
| Paid laborers | \$1,814 40 | |
| for teams | 363 13 | |
| | <hr/> | \$2,177 53 |
| Macomber, Bigelow, & Dowse, shovels and nails | \$8 15 | |
| J. P. Deering & Co., lumber | 5 54 | |
| Marcellus Day & Co., drain-pipe | 6 60 | |
| Waldo Brothers, drain-pipe | 11 55 | |
| M. C. Warren & Co., nails | 2 50 | |
| Bugbee & Barrett, nails | 2 16 | |
| Thomas McCoubry, sharpening tools, &c. | 50 88 | |
| J. O. Norris, putting down crossing | 10 00 | |
| J. O. Elms, labor on Forest Street | 10 00 | |
| | <hr/> | 107 38 |
| Nelson Cochran, 601 loads gravel | \$48 08 | |
| James Marshall, 215 loads gravel | 17 20 | |
| | <hr/> | 65 28 |
| | | <hr/> |
| | | \$2,350 19 |

CONTRA.

| | | |
|--|------------|------------|
| Appropriation at annual meeting | \$1,500 00 | |
| Special appropriation Sept. 20, 1878 | 1,000 00 | |
| | <hr/> | \$2,500 00 |
| Balance unexpended | | \$149 81 |
| | | <hr/> |
| | | \$2,500 00 |

Of the amount paid for labor and teams there was expended in —

| | |
|---|----------|
| March, 1878 | \$10 42 |
| April, 1878 | 238 01 |
| May, 1878 | 681 02 |
| | <hr/> |
| <i>Amount carried forward</i> | \$929 45 |

| | | | | | | | |
|-------------------------------|---|---|---|---|---|---|------------------|
| <i>Amount brought forward</i> | . | . | . | . | . | . | \$929 45 |
| June, 1878 | . | . | . | . | . | . | 335 31 |
| July, 1878 | . | . | . | . | . | . | 207 63 |
| August, 1878 | . | . | . | . | . | . | 156 66 |
| September, 1878 | . | . | . | . | . | . | 362 85 |
| October, 1878 | . | . | . | . | . | . | 109 00 |
| November, 1878 | . | . | . | . | . | . | 66 38 |
| December, 1878 | . | . | . | . | . | . | 10 25 |
| | | | | | | | <hr/> \$2,177 53 |

MELROSE WATER FUND.

| | | | | | | |
|--|---|---|---|---|---|------------|
| Appropriation for the use of the water | . | . | . | . | . | \$2,000 00 |
| “ “ maintenance | . | . | . | . | . | 1,000 00 |
| Received from A. Lane, Supt., cash at various times, water-rates collected, &c. | . | . | . | . | . | 6,067 47 |
| Received from J. D. Wilde, Treasurer of Joint Water Boards, money refunded. | . | . | . | . | . | 33 33 |
| | | | | | | <hr/> |
| | | | | | | \$9,100 80 |

EXPENDED.

| | | |
|---|-------------|-------------|
| Paid interest coupons on bonds, \$150,000, at 6 per cent | \$9,000 00 | |
| Paid bills on account of construction and maintenance (for a detailed statement of which see Commissioners' Report) . | 1,999 34 | |
| | <hr/> | |
| | \$10,999 34 | |
| Due the town for advances | | 1,898 54 |
| | | <hr/> |
| | | \$10,999 34 |

DYER DAM CASE.

| | |
|---|---------|
| Balance unexpended from previous year | \$51 90 |
| Paid Artemas Barrett, amount awarded by County Commissioners for damages sustained in laying out L. Pond stream | 50 00 |
| | <hr/> |
| Balance | \$1 90 |

TOWN HALL.

No appropriation.

EXPENDED.

| | |
|--|------------|
| H. G. Fields, services as janitor, 6 months to July 1, 1878 | \$150 00 |
| H. G. Fields, window-cleaners | 1 00 |
| S. L. Walton, services as janitor, 6 months to Jan. 1, 1879 | 100 00 |
| Malden & Melrose Gas Light Co., 80,200 cubic feet gas consumed to Jan. 1, 1879 | 267 35 |
| Bugbee & Barrett, sundries | 12 26 |
| J. C. Howes, stock and labor, repairing gas and water pipes, &c. | 29 89 |
| J. P. Deering & Co., lumber | 5 37 |
| E. Howard & Co., clock oil | 1 00 |
| Abram French & Co., gas globes | 4 88 |
| Phillips, Taylor, & Co., 45 $\frac{460}{1000}$ tons coal | 230 67 |
| Aiken & Woodard, 25 baskets charcoal | 10 00 |
| Mrs. M. B. Hopkins, cloth for curtains | 1 05 |
| John Larrabee, sundries | 1 50 |
| M. C. Warren & Co., hardware | 7 20 |
| L. F. Hinckley, nails | 83 |
| Walter S. Upham, painting outside doors, stock and labor | 16 36 |
| Thomas McCoubry, ironwork | 10 52 |
| Charles Taylor, stock and labor, making ventilators, repairs, &c. | 179 58 |
| Watson & Bisbee, ash sawed, moulded, &c., for ventilator | 37 02 |
| | <hr/> |
| | \$1,066 48 |

RECEIPTS.

| | |
|--|----------|
| From Melrose Lyceum, use of hall | \$250 00 |
| Baptist Society, use of hall | 25 00 |
| | <hr/> |
| <i>Amounts carried forward.</i> | \$275 00 |

| | | |
|---|----------|-------------------|
| <i>Amounts brought forward</i> . . . | \$275 00 | |
| From Republican Town Committee, use of hall | 17 00 | |
| Mrs. G. N. Bordman, use of hall . | 25 00 | |
| Emerson benefit concert, use of hall, | 25 00 | |
| Post 4, G.A.R., and committee on reception to Mrs. Livermore . | 25 75 | |
| | | <u>\$367 75</u> |
| Expenditures exceed receipts | | 698 73 |
| | | <u>\$1,066 48</u> |

NOTE. — Since the closing of the above account, there has been received for use of hall, for Butler meeting, \$25.00; Boynton meeting, \$25.00; Hoar meeting, \$25; use of small room, three evenings, \$15.00: total, \$90.00

DRAINAGE.

| | |
|----------------------------------|-----------------|
| Appropriation | \$300 00 |
| Balance from last year | 219 54 |
| | <u>\$519 54</u> |

EXPENDED.

Dix Pond Drain.

| | | |
|---|---------|-----------------|
| Glendon Company, hemlock plank . . . | \$50 08 | |
| J. P. Deering & Co., lumber | 15 57 | |
| Bills for labor | 92 64 | |
| W. H. Stewart, carpenter-work | 24 25 | |
| L. F. Hinckley, nails | 2 40 | |
| | | <u>\$184 94</u> |

Ell and Spot Pond Brooks.

| | | |
|---|---------|--------------|
| Clearing same to Malden line, — | | |
| John Keating, 32½ days' labor | \$48 75 | |
| John Hawkins, 27½ days' labor | 41 25 | |
| | | <u>90 00</u> |

Wyoming Avenue.

| | | |
|--|----------|---------------|
| P. R. Ellis, 303 yards concrete gutter . . . | \$96 96 | |
| P. R. Ellis, 129 yards concrete crossing . . . | 64 50 | |
| | | <u>161 46</u> |
| <i>Amounts carried forward</i> | \$436 40 | |

Amounts brought forward \$436 40

Berwick Street.

| | | |
|---|-------------------|-------|
| James Marshall, labor and teams | \$20 37 | |
| James Marshall, gravel | 1 44 | |
| | <u> </u> | 21 81 |

Sundry Bills. . .

| | | |
|--|-------------------|-------|
| H. J. Rice, culvert edgestone, and curb . . | \$10 50 | |
| Richard Whowell, carpenter-work | 75 | |
| S. E. Benson, cement and sand | 7 50 | |
| Waldo Brothers, 84 feet 15-inch pipe . . . | 42 00 | |
| Marcellus Day & Co., 90 feet 6-inch pipe . . | 14 85 | |
| | <u> </u> | 75 60 |

| | | |
|------------------------------|--|-----------------|
| Expenditures exceed \$14.27. | | <u>\$533 81</u> |
|------------------------------|--|-----------------|

WYOMING CEMETERY.

RECEIPTS.

| | |
|--|-------------------|
| For 13½ lots sold to residents of the town | \$600 00 |
| 3 lots sold to non-residents | 450 00 |
| 3 large graves sold | 18 00 |
| 3 small graves sold | 11 00 |
| use of tomb (non-residents) | 5 00 |
| From Charles Hutchins, for clearing path | 1 00 |
| Ai Libby, for grass | 7 50 |
| residents on account of lots sold | 25 00 |
| | <u> </u> |
| | \$1,117 50 |

EXPENDED.

| | |
|---|-------------------|
| Henry N. Cass, framing plan | \$2 75 |
| Justus Geist, plants | 24 00 |
| F. T. & C. E. Palmer, paint | 75 |
| E. O. Howes, painting stakes | 7 20 |
| M. C. Warren & Co., padlock | 1 12 |
| | <u> </u> |
| <i>Amount carried forward</i> | \$35 82 |

| | | | | |
|--|---|---|---|------------|
| <i>Amount brought forward</i> | . | . | . | \$35 82 |
| B. R. Upham, manure | . | . | . | 3 00 |
| Waldo Brothers, drain-pipe | . | . | . | 4 75 |
| Norcross & Murch, marble headstones | . | . | . | 25 00 |
| Aaron Tay, labor | . | . | . | 2 25 |
| J. A. Lambert, labor | . | . | . | 7 00 |
| Thomas McCoubry, granite roller and iron door for tomb | . | . | . | 35 50 |
| George Gobel, labor | . | . | . | 94 84 |
| Nathaniel Howard, labor | . | . | . | 100 50 |
| Thomas Marshall, labor and teams | . | . | . | 180 37 |
| George Newhall, services | . | . | . | 25 00 |
| John Larrabee, services | . | . | . | 25 00 |
| | | | | <hr/> |
| | | | | \$539 03 |
| Surplus over expenses for year | . | . | . | 578 47 |
| | | | | <hr/> |
| | | | | \$1,117 50 |

STATE AID.

| | | | | | | | | |
|--|---|---|---|---|---|---|---|----------|
| Received from State Treasurer, for aid paid during year 1877 | . | . | . | . | . | . | . | \$867 00 |
|--|---|---|---|---|---|---|---|----------|

NAMES OF PERSONS RECEIVING AID, AND AMOUNT PAID TO EACH, DURING TEN MONTHS ENDING JAN. 1, 1879.

| | | | | | | |
|-------------------------------|---|---|---|---|---|----------|
| Samuel Sprague | . | . | . | . | . | \$100 00 |
| George C. Bucknam | . | . | . | . | . | 100 00 |
| William Story | . | . | . | . | . | 100 00 |
| Isaac C. Dowling | . | . | . | . | . | 60 00 |
| Luzon Weeks | . | . | . | . | . | 60 00 |
| Joseph S. Eastman | . | . | . | . | . | 60 00 |
| Horace W. Cushman | . | . | . | . | . | 46 50 |
| Sara E. Stilphen | . | . | . | . | . | 40 00 |
| Mary F. Howard | . | . | . | . | . | 40 00 |
| Sarah Barrett | . | . | . | . | . | 40 00 |
| | | | | | | <hr/> |
| <i>Amount carried forward</i> | . | . | . | . | . | \$646 50 |

| | | | | | | | |
|-------------------------------|---|---|---|---|---|----------|----------|
| <i>Amount brought forward</i> | . | . | . | . | . | \$646 50 | |
| Helen E. Poole | . | . | . | . | . | 40 00 | |
| Maria G. Colson | . | . | . | . | . | 40 00 | |
| Anna W. Martin | . | . | . | . | . | 20 00 | |
| Harriet N. Lynde | . | . | . | . | . | 40 00 | |
| Harrison French | . | . | . | . | . | 8 50 | |
| Lionel D. Phillips | . | . | . | . | . | 60 00 | |
| James F. Ramsay | . | . | . | . | . | 15 00 | |
| Angus McDonald | . | . | . | . | . | 12 00 | |
| George A. Tainter | . | . | . | . | . | 20 00 | |
| | | | | | | <hr/> | \$902 00 |

TOWN OFFICERS.

| | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|------------|
| Appropriation | . | . | . | . | . | . | . | \$1,880 00 |
| Balance from last year | . | . | . | . | . | . | . | 224 10 |
| | | | | | | | | <hr/> |
| | | | | | | | | \$2,104 10 |

EXPENDED.

| | | |
|---|---------|------------|
| John R. Norton, services as Auditor, 1877, | \$15 00 | |
| Frank E. Orcutt, services as Auditor, 1877, | 15 00 | |
| Nathan D. Blake, services as Selectman, | | |
| 1878 | 200 00 | |
| Charles H. Edmonds, services as Select- | | |
| man, 1878 | 200 00 | |
| Henry G. Fields, services as Selectman and | | |
| Overseer of Poor, 1878 | 250 00 | |
| John Larrabee, services as Town Clerk, 1878, | 175 00 | |
| George Newhall, services as Treasurer, 1878, | 275 00 | |
| James C. Currier, services as Assessor, 1878, | 150 00 | |
| Charles T. Stevens, services as Assessor, | | |
| 1878 | 150 00 | |
| Henry A. Leonard, services as Assessor, | | |
| 1878 | 150 00 | |
| John R. Jones, services as Collector, for | | |
| collecting \$29,234.91 at one-half of one | | |
| per cent | 146 17 | |
| | | <hr/> |
| | | \$1,726 17 |
| Balance | | 377 93 |
| | | <hr/> |
| | | \$2,104 10 |

POLICE.

| | |
|----------------------------------|----------|
| Appropriation | \$200 00 |
| Balance from last year | 10 21 |
| | <hr/> |
| | \$210 21 |

EXPENDED.

| | | |
|-------------------------------------|--------|---------|
| Joseph Holbrook, services | \$4 00 | |
| H. W. Cushman, " | 11 00 | |
| A. B. Pierce, " | 77 50 | |
| H. B. Newhall, " | 14 50 | |
| A. C. Chick, " | 29 00 | |
| | <hr/> | 136 00 |
| Balance unexpended | | <hr/> |
| | | \$74 21 |

PUBLIC LIBRARY.

| | | |
|---|----------|----------|
| Appropriation, Dog Tax and | \$400 00 | |
| Balance from last year | 437 47 | |
| | <hr/> | \$837 47 |
| Paid E. H. Goss, treasurer of trustees, on orders | | 837 47 |

STREET LIGHTS.

| | |
|---|-------------------|
| Appropriation | \$1,650 00 |
| Balance from last year | 237 69 |
| | <hr/> |
| <i>Amount carried forward</i> | <i>\$1,887 69</i> |

Amount brought forward \$1,887 69

EXPENDED.

Paid Globe Gas Light Co., for
lighting and care of:—

100 lamps, 3 months, to May 1,

1878 \$375 00

110 lamps, 8 months, to Jan. 1,

1879 1,075 12

 \$1,450 12

Paid Globe Gas Light Co. for:—

13 copper lanterns \$78 00

10 iron lamp-posts complete 90 00

 168 00

 \$1,618 12

Balance unexpended \$269 57

ARMORY RENT.

Paid Henry A. Leonard, rent 10 months to Dec. 17,

1878 \$500 00

Cr.

Received from State Treasurer,

Amount paid by town during the year 1878 600 00

COUNSEL FEES.

Appropriation \$876 66

Paid F. S. Hessel tine, for services and ex-
penses in case of Waitt brothers, pau-
pers, Town of Malden *v.* Melrose

 \$169 50

Amount carried forward \$169 50

| | | |
|---|----------|----------|
| <i>Amount brought forward</i> | \$169 50 | |
| For services defending suit of Gilbert Williams, assignee, v. Melrose | 150 00 | |
| For services and expenses in Dyer Dam Case | 557 16 | |
| | <hr/> | \$876 66 |

CASE OF WAITT BROTHERS, PAUPERS.

| | |
|---|------------|
| Appropriation | \$2,135 46 |
| Paid Town of Malden in settlement for board and clothing G. W. Waitt, to March 15, 1876, burial expenses, &c.; for board and clothing Ezra Waitt, to Sept. 7, 1878, court expenses bringing suit, &c. | 2,135 46 |

RELIEF TO SOLDIERS.

Sums paid under an act of the legislature for the year 1878, entitled "An Act to provide Additional Pay to Poor and Indigent Soldiers and Sailors." The amount paid is to be re-imbursed to the town by the Commonwealth in the same manner as State aid is now re-imbursed.

| | |
|---|----------|
| Charles S. Jones | \$30 00 |
| William J. Riley | 80 00 |
| George W. Grover, jun. | 80 00 |
| Daniel D. Penney | 40 00 |
| Joseph J. Wilkinson | 60 00 |
| Ede K. Chase | 32 00 |
| John W. Buttrick | 32 00 |
| Philip McMahan | 36 00 |
| John McLaughlin | 36 00 |
| | <hr/> |
| <i>Amount carried forward</i> | \$426 00 |

45

| | | | | | | | |
|-------------------------------|---|---|---|---|---|-------|----|
| <i>Amount brought forward</i> | . | . | . | . | . | \$426 | 00 |
| William H. Richardson | . | . | . | . | . | 30 | 00 |
| William B. York | . | . | . | . | . | 16 | 00 |
| Moses P. Mitchell | . | . | . | . | . | 16 | 00 |
| Charles H. Howard | . | . | . | . | . | 16 | 00 |
| Amos Rowe | . | . | . | . | . | 16 | 00 |
| Horace W. Stevens | . | . | . | . | . | 16 | 00 |
| Josiah B. York | . | . | . | . | . | 12 | 00 |
| George S. Hyde | . | . | . | . | . | 16 | 00 |
| William H. Earle | . | . | . | . | . | 16 | 00 |
| Robert H. Terry | . | . | . | . | . | 24 | 00 |
| Albert P. Dalrymple | . | . | . | . | . | 8 | 00 |
| Willard Edmunds | . | . | . | . | . | 24 | 00 |
| | | | | | | <hr/> | |
| | | | | | | \$636 | 00 |

(Near D. L. Taylor's.)

| | |
|-------------------------|----------|
| Appropriation | \$829 19 |
|-------------------------|----------|

| | |
|---|----------|
| Paid laborers | \$340 84 |
| for teams | 39 99 |
| D. L. Taylor, expense | 24 65 |
| P. R. Ellis, gravel delivered | 18 60 |
| Waldo Brothers for 450 ft. 15-inch pipe | 198 00 |
| for 3 Y's | 7 11 |
| Samuel E. Sewall and others for right of way through Taylor estate, dam- age, &c. | 200 00 |
| | <hr/> |
| | \$829 19 |

GUIDE-BOARDS.

| | | |
|---|---------|---------|
| Appropriation | | \$50 00 |
| Paid T. R. Spear for 12 sign-boards, painting and lettering same | \$15 00 | |
| Paid T. R. Spear for one double sign and iron | 2 25 | |
| W. A. Goodno, labor on posts | 4 00 | |
| James Marshall, cedar posts | 4 00 | |
| | <hr/> | 25 25 |
| Balance unexpended | | 24 75 |
| | | <hr/> |
| | | \$50 00 |

INTEREST.

| | |
|----------------------------------|------------|
| Appropriation | \$4,000 00 |
| Balance from last year | 4,413 84 |
| | <hr/> |
| | \$8,413 84 |

EXPENDED.

| | | |
|---|------------|------------|
| Interest coupons on Town Hall bonds | \$4,550 00 | |
| Interest on notes made to R. G. Shedd as trustee | 1,727 70 | |
| Lowell Institution for Savings | 600 00 | |
| State Treasurer | 900 00 | |
| | <hr/> | \$7,777 70 |
| Paid on temporary loans in anticipation of taxes | 740 79 | |
| | <hr/> | \$8,518 49 |
| | | <hr/> |
| Appropriation exceeded | | \$104 65 |

SIDEWALKS.

Appropriation \$1,000 00

EXPENDED.

| | | |
|--|----------|------------|
| Walter B. Ellis, one-half of the expense of laying 2,919 $\frac{7}{8}$ square yards of concrete, | \$476 70 | |
| P. R. Ellis, one-half of the expense of laying 2,012 $\frac{2}{3}$ square yards | 322 02 | |
| Michael Murray, one-half of the expense of laying 626 square yards | 100 16 | |
| H. A. Leonard, one-half of the expense of laying 27 $\frac{1}{2}$ square yards | 4 40 | |
| | <hr/> | |
| | \$903 28 | |
| Paid laborers for preparing walks | 94 26 | |
| | <hr/> | |
| | | 997 54 |
| Balance unexpended | | 2 46 |
| | | <hr/> |
| | | \$1,000 00 |

By vote of the town the Selectmen were instructed to expend the amount appropriated for sidewalks, for good and substantial concrete or asphalt walks, under the provisions of chap. 303 of the acts of 1872 as amended by the first section of chap. 107 of the acts of 1874, General Statutes, which were adopted March 27, 1876. Said laws provide that the abutters pay one-half of the expense, and towns the other half. In accordance with the above, concrete walks have been laid in front of the following-named estates : —

| | Yards. |
|--|------------------|
| A. C. Goss, Summer Street | 74 $\frac{1}{4}$ |
| Simeon Locke, Summer Street | 35 $\frac{1}{3}$ |
| Foster & Webster, Essex Street | 156 |
| David Webster, Essex Street | 74 |
| John Hawkins, Essex Street | 56 |
| James Fallon, Vine Street | 36 $\frac{2}{3}$ |

| | Yards. |
|--|-------------------|
| Mrs. Cobb, Vine Street | 54 $\frac{4}{9}$ |
| George Tyler, Vine, corner of Myrtle Street | 96 $\frac{2}{3}$ |
| George Simmons, Myrtle Street | 42 $\frac{7}{9}$ |
| T. T. Shepard, Myrtle Street | 41 $\frac{2}{3}$ |
| Provincetown Savings Bank, Myrtle Street | 30 $\frac{5}{9}$ |
| Unitarian Society, corner Myrtle Street | 57 $\frac{7}{9}$ |
| T. J. Kimball, Foster Street | 64 $\frac{1}{2}$ |
| H. G. Fields, Main Street | 60 |
| S. S. Bugbee, Main Street | 39 $\frac{1}{3}$ |
| P. R. Ellis, Myrtle Street | 47 $\frac{2}{3}$ |
| W. Irving Ellis, Vine Street | 78 $\frac{1}{3}$ |
| J. A. Barrett, Myrtle Street | 78 $\frac{1}{2}$ |
| Elisha Kent, Lynde Street | 85 |
| E. R. Cleaveland, Wyoming Avenue | 64 $\frac{1}{2}$ |
| W. H. Jones, corner Myrtle and Foster Streets | 127 |
| George Stevens, corner Myrtle and Vine streets | 64 |
| W. B. Burgess, Myrtle Street | 27 $\frac{2}{3}$ |
| John Goggin, Foster Street | 32 |
| O. K. Stebbins, Myrtle Street | 23 $\frac{1}{3}$ |
| C. A. Whittemore, Foster Street | 43 |
| Elisha Myrick, Foster Street | 50 |
| Artemas Barrett, Foster and Myrtle Street | 141 |
| A. W. Haskell, Foster and Myrtle Streets | 122 |
| A. P. Perkins, Myrtle Street | 64 $\frac{2}{3}$ |
| Mrs. Shattuck, Myrtle Street | 44 |
| H. A. Leonard, Main Street | 27 $\frac{1}{2}$ |
| E. H. Goss, Cedar Park | 34 |
| C. H. Isburgh, Cedar Park | 240 |
| E. H. Walker, Vinton Street and Cedar Park | 172 |
| Mrs. H. Whitney, Cedar Park | 28 |
| John Buffum, Lebanon Street | 41 |
| John Kohr, Lebanon Street | 39 |
| Charles Larrabee, Lebanon Street | 43 |
| John Walters, Lebanon Street | 29 |
| —— Pulsifer, Elm Street | 49 |
| M. S. Page, Elm Street | 49 |
| D. W. Foster, Vine Street | 93 $\frac{1}{3}$ |
| J. C. Howes, Emerson Street | 72 $\frac{2}{3}$ |
| George T. Stantial, Poplar Street | 100 $\frac{1}{3}$ |

| | Yards. |
|--|-------------------|
| H. A. Norris, Elm Street | 50 $\frac{1}{4}$ |
| H. A. Norris, Elm Street | 53 $\frac{1}{3}$ |
| H. A. Norris, Elm Street | 191 $\frac{1}{3}$ |
| A. W. Sewall, Elm Street | 52 $\frac{2}{3}$ |
| J. A. Parker, Elm Street | 59 $\frac{1}{3}$ |
| Emerson estate, Emerson Street | 69 |
| Anthony Crosby, Emerson Street | 66 |
| W. F. Poole, Emerson Street | 79 |
| D. L. & J. G. Webster, Emerson Street | 125 $\frac{1}{3}$ |
| Unitarian Society, Emerson Street | 73 |
| Mrs. Ward, Emerson Street | 72 |
| Town of Melrose (driveway), Emerson Street | 17 |
| Small Brothers, Emerson Street | 72 |
| Orthodox Society, Foster Street | 182 |
| William Bogle, Foster Street | 98 $\frac{2}{3}$ |
| John C. Maker, corner Main Street | 40 $\frac{2}{3}$ |
| H. H. Boardman, Vinton Street | 34 $\frac{1}{3}$ |
| J. D. Wilde, Vinton Street | 127 $\frac{2}{3}$ |
| M. F. Eastman, Main Street | 32 $\frac{1}{3}$ |
| S. E. Benson, Cedar Park | 117 $\frac{5}{9}$ |
| Mrs. Ward, Cedar Park | 72 $\frac{1}{2}$ |
| G. H. Ricker, Upham Street | 47 $\frac{1}{3}$ |
| Mrs. A. Webster, Myrtle Street | 35 $\frac{1}{2}$ |
| William Bailey, Wyoming Avenue | 190 $\frac{2}{3}$ |
| E. R. Cleaveland, Wyoming Avenue | 97 |
| W. B. Kent, Florence Street | 84 $\frac{1}{3}$ |
| H. A. Norris, corner Green and Avon Streets | 124 $\frac{3}{4}$ |
| J. B. Souther, corner Green and Avon Streets | 117 $\frac{1}{2}$ |
| J. Owen Littlefield, Avon Street | 59 |
| Miles Mayall, Avon Street | 31 |
| John McQuinn, Avon Street | 54 |
| —— Lecraw, Avon Street | 31 |
| Miss L. Porter, Avon Street | 57 |

REPORT OF COLLECTOR.

FOR FINANCIAL YEAR ENDING DEC. 31, 1878.

| | | |
|-----------------------------------|-------------|-------------|
| Amount collected of residents . . | \$24,077 23 | |
| non-residents . . | 4,763 30 | |
| additional . . | 394 38 | |
| | <hr/> | \$29,234 91 |

Cr.

| | | |
|---|-------------|-------------|
| Paid George Newhall, treasurer . . | \$29,088 74 | |
| Commission on amount collected at $\frac{1}{2}$ | | |
| per cent | 146 17 | |
| | <hr/> | \$29,234 91 |

Respectfully submitted.

J. R. JONES, *Collector.*

MELROSE, Dec. 31, 1878.

REPORT OF FIRE ENGINEERS,

FROM MARCH 1, 1878, TO JAN. 1, 1879.

It is with no slight degree of satisfaction that we tender this, our ten months' report, to the citizens of the town.

By strict economy we have been able to keep the expenses of the department within the appropriation for the ten months, with a balance on hand that the engineers think will meet all current expenses to March 1 ; and we believe the department fully up to its high standard, with improvements which we deemed necessary to the department apparatus and appurtenances during the ten months.

FIRES.

It is a cause of self-congratulation to the people of the town, that there have been no fires the past year.

Two alarms have been given, as follows :—

June 10, 1878, seven to nine P.M., caused by the loss of a child from Saugus.

Oct. 3, 1878, twelve to ten A.M., caused by the burning of the asylum at Greenwood.

MEMBERSHIP.

During the past ten months there have been but two changes in the membership of companies, of which there are four, one hook-and-ladder and three hose companies ; each company being filled with competent and reliable men.

The number of men allowed each hose company is 15, and the hook-and-ladder company 25.

HOUSES AND APPARATUS.

The hook-and-ladder truck is located in the basement of the Town Hall, and is in the care of Liberty Bigelow Hook-and-Lad-

der Company, No. 1. The carriage and ladders are in good condition ; the house requires some repairing.

The Russell hose carriage, in the care of Russell Hose Company, No. 1, is located in the old engine-house on Main Street, near the Town Hall, and is in good working order. The house was repaired upon the inside the past season, but will have to be shingled the coming year.

N. D. Blake hose carriage, in the care of N. D. Blake Hose Company, No. 2, is located in the Masonic Building on the corner of Main Street and Wyoming Avenue. The carriage and house are in good repair. We have had a hose-sled built and placed in this house, as it was almost impossible to respond with any degree of alacrity to an alarm with the carriage in winter.

The Highland hose carriage, in the care of Highland Company, No. 3, is located in its house on Franklin Street, at the Highlands. This carriage has been put in good repair. We have also had the sled made for this company repaired, but it needs a small outlay to make it more efficient.

It would be economy to the town to appropriate money to build a tower at this house, as they have no proper place for drying hose.

The Endeavor hand-engine is located in the house with the Russell hose carriage, and is in good working order at the present time. The hose jumper belonging to this engine is used during the winter by the Russell Hose Company, being placed upon runners for that purpose.

HOSE.

The amount of hose in the department is 2,700 feet ; 600 feet is rubber-lined linen hose, 600 feet rubber-lined cotton hose, 1,500 feet leather. Three hundred feet of the leather hose is unfit to stand much pressure, and will soon have to be condemned.

The hose is apportioned to the different sections of the town as follows : —

In care of Russell Hose Company, 1,000 feet. N. D. Blake and Highland hose companies, 850 feet each. Two hundred feet of old leather hose has condemned and sold during the year.

Six hundred feet of rubber-lined cotton hose was bought in May last with the \$400 appropriated by the town.

APPROPRIATION.

Believing economy necessary in every department, we therefore ask for an appropriation only sufficient to pay the running expenses, and to keep the department, apparatus, and buildings in good order.

Therefore we recommend an appropriation of \$2,200 for the support of the fire department, and \$400 for the purchase of new hose.

Respectfully submitted.

A. E. WORTHEN,
R. WHOWELL,
HENRY BARRON,

Engineers Melrose Fire Department.

REPORT OF THE TOWN TREASURER.

| | |
|---|--------------|
| Cash in the treasury, March 8, 1878 . . . | \$3,976 60 |
| Total receipts for the year . . . | 115,236 00 |
| | \$119,212 60 |
| Total disbursements for the year . . . | 117,341 91 |
| | \$1,870 69 |

Temporary Loans.

| | |
|---|-------------|
| Paid notes of previous year . . . | \$20,000 00 |
| Borrowed in anticipation of taxes during the year . | \$54,500 00 |
| Of this amount has been paid . . . | 29,500 00 |
| | \$25,000 00 |

Notes Outstanding.

1878.

| | |
|--|-------------|
| Sept. 25, Commonwealth of Massachusetts, on 6 months' interest, $3\frac{1}{4}$ per cent per annum . . . | \$10,000 00 |
| Dec. 9, Commonwealth of Massachusetts on 6 months' interest, $3\frac{1}{4}$ per cent per annum . . . | 5,000 00 |

1879.

| | |
|---|--------------|
| Jan. 1, John Pickering and Moseley, on 6 months' interest, $3\frac{1}{4}$ per cent per annum . . . | 10,000 00 |
| | \$25,000 000 |

PERMANENT LOANS.

Notes Outstanding.

| | |
|--|-------------|
| R. G. Shedd, trustee, due Dec. 1, 1880, interest 7 per cent . . . | \$24,000 00 |
| Commonwealth of Massachusetts, due Oct. 15, 1883, interest 6 per cent . . . | 5,000 00 |
| | \$29,000 00 |

| | |
|------------------------------|-------------|
| Amount carried forward . . . | \$29,000 00 |
|------------------------------|-------------|

| | |
|---|-------------|
| <i>Amount brought forward</i> | \$29,000 00 |
| Lowell Institution for Savings, due Sept. 7, 1885, interest 6 per cent | 20,000 00 |
| Commonwealth of Massachusetts, due Oct. 15, 1888, interest 6 per cent | 5,000 00 |
| | <hr/> |
| | \$54,000 00 |
| Since last report there has been paid to :— | |
| Commonwealth of Massachusetts, note due Oct. 15, 1878, interest 6 per cent | \$5,000 00 |
| On account of note made to R. G. Shedd, trustee, interest 7 per cent | 1,000 00 |
| | <hr/> |
| | \$6,000 00 |

REDUCTION OF TOWN DEBT. — 1874–1879.

PERMANENT LOANS.

| | |
|---|-------------|
| Notes outstanding March 1, 1874 | \$85,439 80 |
|---|-------------|

Increase.

| | |
|---|-------------|
| The treasurer was instructed to borrow on ac- count of building Centre Schoolhouse | \$10,000 00 |
| For purchase of Newhall building | 6,000 00 |
| Borrowed of James Worthen, guardian E. M. Waitt, | 234 56 |

| | |
|--|--------------|
| Debt and increase exclusive of Water Fund and Town Hall bonds | \$101,674 36 |
|--|--------------|

The following notes have been paid during the five years mentioned, as shown below.

1874.

| | |
|---|------------|
| Paid executor of H. Temple, note dated Dec. 8, 1862, interest 6 per cent | \$5,000 00 |
| Paid executor of H. Temple, note dated July 2, 1864, interest 6 per cent | 2,000 00 |
| Paid Mary A. Simonds, note dated July 11, 1868, interest 6 per cent | 1,000 00 |
| Paid Charlotte Sprague, note dated Feb. 13, 1865, interest 6 per cent | 100 00 |

| | | |
|--|------------|--------------|
| <i>Amounts carried forward</i> | \$8,100 00 | \$101,674 36 |
|--|------------|--------------|

| | | |
|--|----------------------------------|--------------|
| <i>Amounts brought forward</i> . . . | \$8,100 00 | \$101,674 36 |
| Paid Mary Dix on account of note dated May 13, 1872, interest 6 per cent . . . | 39 80 | |
| 1875. | | |
| Paid Seamen's Savings B'nk, Provincetown, note dated April 26, 1872, interest 7 per cent . . . | 10,000 00 | |
| Paid Home Savings B'nk, Boston, note dated Nov. 10, 1874, interest 7 per cent . . . | 10,000 00 | |
| Paid Dexter Pratt, trustee, on note dated June 2, 1873, interest 7 per cent . . . | 1,200 00 | |
| Paid James Worthen, guardian, on account of note dated Sept. 9, 1874, interest 7 per cent . . . | 168 14 | |
| 1876. | | |
| Paid Eri Upham; note dated June 12, 1858, interest 6 per cent . . . | 500 00 | |
| Paid James Worthen, guardian, balance of note dated Sept. 9, 1874, interest 7 per cent . . . | 66 42 | |
| Paid Dexter Pratt and S. B. Robinson, trustees, three notes, dated June 2, 1873, June 24, 1874, and Sept. 9, 1874. | 1,200 00 2,000 00 4,000 00 | |
| 1877. | | |
| Paid Mary Dix, note dated Oct. 2, 1876, interest 5 per cent . . . | 4,400 00 | |
| 1878. | | |
| Paid Commonwealth of Massachusetts, note dated Oct. 15, 1868, interest 6 per cent | 41,674 36 5,000 00 | 101,674 36 |
| Paid on account of note made to R. G. Shedd, dated June 1, 1870, interest 7 per cent | 1,000 00 | |
| | <hr/> | <hr/> |
| | | \$47,674 36 |
| 1879. | | |
| Jan. 13, Permanent loans outstanding as previously shown | | \$54,000 00 |

There has also been paid to the Water Loan Sinking Fund Commissioners, the sum of \$3,811.90; surplus to March, 1878, over expenses, \$3,811.90.

STATEMENT OF THE TOWN DEBT.—JAN. 1, 1879.

BONDS.

| | |
|---|--------------|
| Melrose Water Fund, 1st issue, due July 1, 1890 . | \$100,000 00 |
| 2d “ “ Oct. 1, 1892 . | 50,000 00 |
| Town Hall bonds, due Oct 1, 1892 . . . | 65,000 00 |
| | <hr/> |
| | \$215,000 00 |
| Permanent loans | 54,000 00 |
| Temporary “ | 25,000 00 |
| | <hr/> |
| | \$294,000 00 |

AVAILABLE ASSETS.

| | |
|---|--------------|
| Due from State on account of State aid, 1878 | \$1,092 00 |
| Due from State on account of relief to soldiers, 1878 | 636 00 |
| Bills due on poor account | 1,002 16 |
| Uncollected taxes, estimated | 20,000 00 |
| Cash in treasury | 1,870 69 |
| Water Loan Sinking Fund | 3,811 90 |
| | <hr/> |
| | \$28,412 75 |
| Net debt more than assets available | \$265,587 25 |

Respectfully submitted.

GEO. NEWHALL, *Treasurer.*

E. & O. excepted.

DR. GEORGE NEWHALL, TREASURER,

Cash in Treasury, March 8, 1879 \$3,976 60

RECEIPTS.

From State Treasurer:—

| | |
|-----------------------------------|----------|
| On account of State aid | \$867 00 |
| Armory rent | 600 00 |
| Corporation Tax | 1,060 43 |
| Bank Tax | 691 52 |

3,218 95

From various sources:—

| | |
|-----------------------------------|----------|
| On account of Poor Fund | \$709 02 |
| Contingent Fund | 19 00 |
| Fire Department | 4 40 |

From J. D. Wilde, Treasurer Joint Water Boards 33 33

From A. Lane, Supt., on account of Water Fund 6,067 47

For lots, graves, &c., in Wyoming Cemetery 1,117 50

For use of Town Hall 367 75

Interest on bonds, Water Loan Sinking Fund 78 74

8,397 21

TAXES.

From A. B. Pierce, Collector, taxes for 1877 \$19,884 93

J. R. Jones, Collector, taxes for 1878 29,234 91

49,119 84

TEMPORARY LOANS.

Received on Treasurer's notes 54,500 00

\$119,212 60

IN ACCOUNT WITH THE TOWN OF MELROSE, Cr.

By paid Clerk's orders, as follows:—

| | |
|---|------------|
| School Fund | \$9,554 31 |
| School Contingent | 1,296 66 |
| Poor Fund | 5,096 63 |
| Contingent Fund | 677 64 |
| Cemetery Fund | 539 03 |
| Police | 136 00 |
| Town Officers | 1,726 17 |
| Highways | 2,350 19 |
| State aid | 902 00 |
| Town Hall | 1,066 48 |
| Street lights | 1,618 12 |
| Fire Department | 2,165 78 |
| Water Fund | 1,999 34 |
| Drainage | 533 81 |
| Counsel fees | 876 66 |
| Armory rent | 500 00 |
| Dyer Dam case | 50 00 |
| Drainage Emerson Street (near D. L. Taylor's) . | 829 19 |
| Waitt brothers' case (paupers) | 2,135 46 |
| Sidewalks | 997 54 |
| Guide-boards | 25 25 |
| Soldiers' relief | 636 00 |

\$35,712 26

| | |
|---|------------|
| By paid interest coupons on Water Bonds . . . | \$9,000 00 |
| for recording deeds | 1 85 |
| order of Overseers of the Poor | 2 00 |
| for four per cent U.S. bonds, for Water Loan | |
| Sinking Fund | 3,670 62 |
| interest on notes and Town Hall bonds . . . | 8,518 49 |
| orders Trustees Public Library | 837 47 |
| State tax | 2,380 00 |
| County tax | 1,719 22 |
| Treasurer's notes, temporary loans . . . | 55,500 00 |

81,629 65

\$117,341 91

Jan. 13, 1879. By cash in Treasury 1,870 69

\$119,212 60

We having examined the books and vouchers of the town, in detail, find them to be correctly and carefully kept.

JOHN R. NORTON, }
F. E. ORCUTT, } *Auditors.*

MELROSE, Jan. 25, 1879.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS
OF THE
TOWN OF MELROSE,
FOR THE FINANCIAL YEAR ENDING DEC. 31, 1878.

MEMBERS OF THE BOARD.

° JOSEPH D. WILDE,
W. IRVING ELLIS,
J. R. SIMONDS.

REPORT OF THE WATER COMMISSIONERS.

IN compliance with an act of the Legislature approved April 2, 1870, we respectfully submit this our Ninth Annual Report; together with a detailed report of our Superintendent, showing the condition of the works, to Jan. 1, 1879.

The adoption by the town, of the by-laws, makes the financial year end the last day of December instead of the last day of February; an improvement on the old system, as our water-rates are from January to January.

The apparent difference in receipts is owing to the above change, the collections being for ten months instead of a full year.

WATER-RATES.

The desire of the Water Board has been to act justly and impartially towards all, conscious of the fact that they have public trusts to manage. Many persons make demands as though they deemed it optional with the commissioners to comply or refuse; the parties forgetting that any private or pecuniary interest does not belong to the commissioners, beyond that of any citizen.

The rates are established; and a party must pay accordingly, whether a quart or barrel of water is used.

WASTE OF WATER.

Complaints are frequently made, and justly too, by persons living on elevated land, that they do not get a supply of water in the heat of the summer, caused partially by persons on the plain letting their hose run continually. Now, this is all wrong, as no one has a legal or moral right to this waste of water. And we would call the attention of persons using hose, that greater discretion must be used. Also, that persons having fountains must comply with the regulation covering the same.

SIXTEEN-INCH MAIN.

The time is not far distant when this town must own an independent main-pipe from the pond to Masonic Hall, connecting with the old one at that place; and we should urge the same at this time if times were better. Our reasons are as follows: The town of Malden being thirty-five or forty feet lower than Melrose, and having a large number of takers, we do not get the pressure that we ought to supply elevated places. And, if any serious break should occur in the main, we could only get what little water would flow through the pipe from Medford. A part of the expense would be borne by the town of Malden.

Your Commissioners recommend appropriations for the coming year, as follows:—

| | |
|---|---------|
| For hydrants, schoolhouses, town hall, engine-houses, &c. | \$2,000 |
| For maintenance | 1,500 |

Water-takers, Jan. 1, 1879.

| | |
|---------------------------------------|-----|
| Families | 876 |
| Apothecaries | 2 |
| Aquariums | 2 |
| Armory | 1 |
| Barber-shops | 2 |
| Bake-house | 1 |
| Bookbindery | 1 |
| Churches | 6 |
| Engine and hose houses | 4 |
| Fish-markets | 2 |
| Greenhouses | 8 |
| Hand-hose | 258 |
| Hydrants.- | 81 |
| Henneries | 1 |
| Halls | 6 |
| Livery and boarding stables | 4 |
| Manufactories. | 7 |
| Ornamental fountains | 13 |
| Private stables | 37 |
| Printing-office | 1 |

| | |
|---|-----|
| Public drinking-fountains | 5 |
| Public ornamental-fountains | 2 |
| Railroad depots | 2 |
| Standpipes | 2 |
| Schoolhouses | 7 |
| Stores and shops | 21 |
| Truck and cart stables | 16 |
| <hr/> | |
| Number of water-takers as per register 1879 | 938 |
| Number of water-takers as per register 1878 | 910 |
| <hr/> | |
| Increase over 1878 | 28 |

RECEIPTS FOR WATER.

Amount received for Water-rates exclusively.

| | |
|-------------------------------------|------------|
| 1870-71 | \$3,909 29 |
| 1872 | 5,141 84 |
| 1873 | 6,133 88 |
| 1874 | 7,202 31 |
| 1875 | 7,882 85 |
| 1876 | 8,788 93 |
| 1877 | 8,850 45 |
| 1878 | 9,267 95 |
| Estimated income for 1879 | 9,200 00 |

CONSTRUCTION ACCOUNT.

| | |
|--|--------------|
| Cost of water-works to Jan. 1, 1878, as per report | \$174,089 36 |
|--|--------------|

Expended this year as follows:—

| | |
|---|----------|
| Thomas Cunningham, pipe | \$133 15 |
| George Woodman, pipe | 32 73 |
| Thomas McCoubry, sharpening tools | 13 10 |
| J. C. Howes, material and labor | 28 26 |
| R. C. Huntress, boxes | 7 50 |
| Levi S. Coffin, fittings | 3 17 |
| Summers & Hunt, fittings for services | 84 50 |
| <hr/> | |

Amount carried forward 302 41

| | | | | |
|-------------------------------|---|---|---|----------|
| <i>Amount brought forward</i> | . | . | . | \$302 41 |
| H. C. Richardson, stand-pipes | . | . | . | 21 00 |
| Bills for trenching | . | . | . | 172 00 |
| | | | | <hr/> |
| | | | | \$495 41 |

CR.

| | | | | | |
|---|---|---|---|---------|------------|
| By amount received from J. D. Wilde, Treasurer Joint Water Boards | . | . | . | \$33 33 | |
| | | | | | <hr/> |
| | | | | | \$462 08 |
| Cost of water-works to Jan. 1, 1879 | . | . | . | | <hr/> |
| | | | | | 174,551 44 |

MAINTENANCE ACCOUNT, 1878.

| | | | |
|---------------------------------------|---|---|----------|
| Tolman & White, printing reports | . | . | \$8 50 |
| M. C. Warren & Co., hardware | . | . | 9 91 |
| Thomas McCoubry, sharpening tools | . | . | 9 01 |
| J. C. Howes, material and labor | . | . | 54 50 |
| R. C. Huntress, gate-boxes | . | . | 35 46 |
| Lowering pipe, and repairs | . | . | 351 86 |
| J. D. Wilde, services as Commissioner | . | . | 50 00 |
| W. I. Ellis, " " " | . | . | 50 00 |
| J. R. Simonds, " " " | . | . | 50 00 |
| F. C. Hastings, drawing-book | . | . | 1 25 |
| James Worthen, sundries | . | . | 3 29 |
| Addison Lane, expense | . | . | 8 75 |
| S. E. Benson, cement | . | . | 15 40 |
| Henry Barron, expressing | . | . | 4 35 |
| Bugbee & Barrett, nails | . | . | 2 65 |
| Robert Philpot, hauling gravel | . | . | 3 50 |
| C. W. Badger, oil | . | . | 1 70 |
| Joel Atwood, boxes | . | . | 1 75 |
| George W. Bartlett, use of team | . | . | 24 00 |
| Babb & Stephens, printing | . | . | 11 00 |
| Joseph Edwards, repairing tools | . | . | 3 50 |
| George Newhall, rubber-boots | . | . | 5 50 |
| New England News Co., blank-books | . | . | 3 00 |
| | | | <hr/> |
| <i>Amount carried forward</i> | . | . | \$708 88 |

| | | | | | |
|--|---|---|---|----------|------------|
| <i>Amount brought forward</i> | . | . | . | \$708 88 | |
| Addison Lane, services as Superintendent | . | . | . | 750 00 | |
| J. P. Baker, advertising reward | . | . | . | 3 00 | |
| M. F. Whiton & Co., coil sizer | . | . | . | 11 55 | |
| C. M. Clapp, enamelled cloth | . | . | . | 3 00 | |
| Dalton & Ingersoll, plumbers' stock | . | . | . | 2 60 | |
| C. F. Curwin, hydrant-covers | . | . | . | 10 15 | |
| R. A. Freeman, teaming | . | . | . | 3 50 | |
| J. P. Deering, lumber | . | . | . | 4 25 | |
| Malden Water Works, branches | . | . | . | 7 00 | |
| | | | | <hr/> | \$1,503 93 |

INTEREST ACCOUNT.

| | | | | | |
|------------------------------|---|---|---|------------|-------------|
| 1878. | | | | | |
| April 1, Coupons on \$50,000 | . | . | . | \$1,500 00 | |
| July 1, " 100,000 | . | . | . | 3,000 00 | |
| Oct. 1, " 50,000 | . | . | . | 1,500 00 | |
| 1879. | | | | | |
| Jan 1, " 100,000 | . | . | . | 3,000 00 | |
| | | | | <hr/> | \$9,000 00 |
| | | | | | <hr/> |
| | | | | | \$10,503 93 |

Receipts.

| | | | | | |
|---|---|---|---|------------|------------|
| Received from town for use of water | . | . | . | \$2,000 00 | |
| " " for maintenance | . | . | . | 1,000 00 | |
| " Town of Malden for care of gate-house and repairs | . | . | . | 279 10 | |
| " for service-pipe | . | . | . | 153 74 | |
| " " water - rates from March 1 to Dec. 1, 1878 | . | . | . | 5,631 03 | |
| " for stock sold | . | . | . | 3 40 | |
| " " notice | . | . | . | 20 | |
| | | | | <hr/> | \$9,067 47 |

| | | | | | |
|------------------------------|---|---|---|---|-------------|
| Expenditures exceed receipts | . | . | . | . | \$1,436 46 |
| | | | | | <hr/> |
| | | | | | \$10,503 93 |

Furniture, stock, and tools on hand Jan. 1, 1879.

| | |
|------------------------------|----------|
| Office furniture | \$200 00 |
| Tools of all kinds | 240 70 |
| Stock | 378 86 |
| | <hr/> |
| | \$819 56 |

REPORT OF THE SUPERINTENDENT.

MELROSE WATER COMMISSIONERS.

Gentlemen,—In accordance with the usual custom I herewith submit my Annual Report.

THE POND.

Some time since, the shore of the pond near the gate-house was graded, and the stones taken out so that the leaves and grass floating in, could be more easily removed. The strong west winds that sweep across the pond in the fall caused the water to wash away the gravel and embankment; to prevent which, a bank wall has been built on each side of the gate-house, and filled in with stones and gravel, which answers the purpose, and adds to the appearance of the grounds.

A small amount of grading has been done about the gate-house, the underbrush cleared up, out to the main road, and a channel cut below the wasteway, for the overflow. This is only a beginning of what needs to be done; but what has been accomplished has been done without extra expense.

The record at the pond shows an average amount of water greater than in 1877, as will be seen by the following

RECORD.

Rise and Fall of Pond in 1878.

1878.

| | |
|----------|---|
| Feb. 28. | At the close of the last report the pond was full and running over. |
| May 13. | At high-water mark. |
| " 20. | 1 inch below high-water mark. |
| " 30. | 3½ inches " " " " |
| June 10. | 5 " " " " " |
| " 20. | 8 " " " " " |
| " 30. | 10 " " " " " |

| | | | | | |
|-----------|---|---|---|---|---|
| July 10. | 15 inches below high-water mark. | | | | |
| " 20. | 17 | " | " | " | " |
| " 30. | 20 | " | " | " | " |
| Aug. 10. | 14 | " | " | " | " |
| " 20. | 15 | " | " | " | " |
| " 30. | 18 | " | " | " | " |
| Sept. 10. | 19 | " | " | " | " |
| " 20. | 20½ | " | " | " | " |
| " 30. | 24 | " | " | " | " |
| Oct. 10. | 26 | " | " | " | " |
| " 22. | 27 | " | " | " | " |
| " 30. | 25 | " | " | " | " |
| Nov. 10. | 26 | " | " | " | " |
| " 13. | 27½ | " | " | " | " |
| " 20. | 23 | " | " | " | " |
| " 30. | 11 | " | " | " | " |
| Dec. 10. | 5 | " | " | " | " |
| " 14. | Pond full and running over at waste-way, and continuing at the present time, Dec. 31. | | | | |

the lowest point.

COMPARATIVE RECORD.

Showing the lowest points below high-water mark to which the pond has been drawn since 1874.

1874.

Lowest point, 43 inches, Dec. 7.

1875.

Lowest point, 61 inches, Feb. 22. Pond full June 23. Next lowest point, 33 inches, Nov. 10.

1876.

Pond full March 25. Lowest point, 37 inches, Nov. 6.

1877.

Pond full March 15. Lowest point, 33 inches, Sept. 30.

1878.

Pond full Jan. 15. Lowest point, 27½ inches, Nov. 13. Pond full, second time, Dec. 14.

STREET-MAINS.

The change of grade on Porter Street, by the highway surveyor, made it necessary to relay about 210 feet of four-inch pipe on that street to a greater depth. The only extension made since last re-

port is the laying of 470 feet of two-inch pipe on Rowe Street. Whole amount of distribution pipes laid since the introduction of water is 16 miles and 851 feet.

GATES.

More gates should be added the coming season, as many of the sections are much too large, requiring the shutting off of too many water-takers in order to make the necessary repairs. Some of the gate-boxes have been raised, and others lowered, to suit the changes in grade of streets. Four have been replaced with new ones. Whole number of gates, 81.

HYDRANTS.

Whole number of hydrants now in use, 81. One on the corner of Essex and Vine Streets, being out of order, has been replaced with a new one, and one on Baxter Street has been reset. Four have been taken up and repaired. All have received a fresh coat of paint, and are in good condition.

STANDPIPES.

Two standpipes for the accommodation of water-carts were added to the works last spring; one on Upham Street, near the Centre Schoolhouse, and the other on Hurd Street, near Wyoming Depot.

LEAKS.

The following record shows the number of leaks that have occurred, and when repaired.

July 5, leak in four-inch pipe, Linwood Avenue. Rust-hole.

July 8, leak in service-pipe, Main Street. Lead connection.

Aug. 9, leak in four-inch pipe, Lebanon Street. Pipe burst by lightning.

Aug. 20, leak in pipe connecting hydrant.

Aug. 22, leak in four-inch pipe on Myrtle Street. Rust-hole.

Sept. 17, leak in six-inch pipe on Main Street. Rust-hole.

Nov. 25, leak on Main Street, in two-inch pipe. Near Reading Hill.

Dec. 16, leak on Winthrop Place, service-pipe. Lead connection.

Dec. 16, leak in hydrant on Essex Street. Put in new hydrant.

SERVICE-PIPES.

Twenty new services have been added since last report. Thirty-five stop boxes have been replaced with new ones. Whole number of services put in, since the introduction of water, is 792 ; discontinued, 31 ; now in use, 761.

Amount of Pipe laid since Last Report.

| | |
|---|-------------|
| $\frac{3}{4}$ -inch from main pipe to street line | 323 feet. |
| “ street line to cellar | 451 “ |
| 2-inch there has been laid | 470 “ |
| $1\frac{1}{4}$ -inch there has been laid | 37 “ |
| <hr/> | |
| Total | 1,281 feet. |

STOCK AND TOOLS.

| | |
|--|----------|
| Estimated value of stock on hand | \$378 86 |
| Tools of all kinds | 240 70 |
| <hr/> | |
| | \$619 56 |

Respectfully submitted.

ADDISON LANE, *Superintendent.*

TOTAL AMOUNT AND LOCATION OF DISTRIBUTION PIPES TO THE
PRESENT TIME.

| STREETS. | FEET OF PIPE. | | | HYDRANTS. | GATES. | | |
|------------------------------|---------------------|---------------------|-------------------|-----------|---------|---------|---------|
| | 6-inch. | 4-inch. | 2-inch. | | 6-inch. | 4-inch. | 2-inch. |
| Eleventh | | | 255 | .... | .... | .... | 1 |
| Third | | 287 | .... | .... | .... | 1 | .... |
| Main | 3,784 | 478 | .... | 8 | 2 | .... | .... |
| Green | 2,700 | .... | .... | 3 | 1 | .... | .... |
| Franklin | 3,155 $\frac{1}{2}$ | .... | .... | 4 | 1 | .... | .... |
| Vinton | 3,483 $\frac{1}{2}$ | 436 | .... | 5 | 2 | 1 | .... |
| Trenton | 1,233 | 1,331 $\frac{1}{2}$ | .... | 1 | 3 | 2 | .... |
| Melrose | | 2,339 $\frac{1}{2}$ | .... | 1 | .... | 1 | .... |
| Ashland | | 1,475 | .... | 2 | .... | 2 | .... |
| Tremont | | 3,180 | .... | 2 | .... | 4 | .... |
| Greenwood | | | 324 | .... | .... | .... | .... |
| Perkins | | 236 | .... | .... | .... | 1 | .... |
| Baxter | | 484 | .... | 1 | .... | 1 | .... |
| Florence | | 1,340 $\frac{1}{2}$ | .... | 1 | .... | 3 | .... |
| Maple and Poplar | | 2,265 $\frac{1}{2}$ | .... | 2 | .... | 1 | .... |
| Emerson | | 3,977 | .... | 5 | .... | 4 | .... |
| Youle | | 998 $\frac{1}{2}$ | 342 | 1 | .... | 1 | .... |
| Otis | | | 780 | .... | .... | .... | .... |
| Oakland | | 1,161 | .... | 1 | .... | 1 | .... |
| Linden Place | | | 286 | .... | .... | .... | .... |
| Cedar Park | | 898 $\frac{1}{2}$ | .... | 2 | .... | .... | .... |
| Laurel | | | 457 | .... | .... | .... | .... |
| Cottage | | 1,142 | 193 | 2 | .... | 2 | .... |
| Hurd | | 768 | .... | .... | .... | 1 | .... |
| Berwick | | 1,226 $\frac{1}{2}$ | .... | 1 | .... | 2 | .... |
| Herbert | | 220 | 158 $\frac{1}{2}$ | .... | .... | .... | .... |
| Grove (West) | | 287 $\frac{1}{2}$ | .... | 1 | .... | .... | .... |
| Waverley Place | | 690 $\frac{1}{2}$ | .... | 1 | .... | 1 | .... |
| Foster | | 1,470 $\frac{1}{2}$ | .... | 1 | .... | 3 | .... |
| Myrtle and Lake Ave. | | 3,170 | .... | 3 | .... | 5 | .... |
| Winthrop | | 695 $\frac{1}{2}$ | .... | .... | .... | 1 | .... |
| Vine | | 691 | .... | .... | .... | 1 | .... |
| Essex | | 1,437 | .... | 4 | .... | 2 | .... |
| Willow | | | 663 | .... | .... | .... | .... |
| Short and Main | | | 470 $\frac{1}{2}$ | .... | .... | .... | .... |
| Reading Hill | | | 723 | 1 | .... | 1 | 1 |
| Porter | | 2,514 $\frac{1}{2}$ | .... | 3 | .... | 1 | .... |
| School | | | 495 | .... | .... | .... | .... |
| Albion | | 222 | .... | 1 | .... | 1 | .... |
| Pleasant | | | 1,125 | .... | .... | .... | 1 |
| Winter | | 241 | .... | .... | .... | 1 | .... |
| Charles | | 335 | .... | 1 | .... | .... | .... |

TOTAL AMOUNT AND LOCATION OF DISTRIBUTION PIPES TO THE
PRESENT TIME — *Concluded.*

| STREETS. | FEET OF PIPE. | | | HYDRANTS. | GATES. | | |
|---------------------------------|---------------|---------|---------|-----------|---------|---------|---------|
| | 6-inch. | 4-inch. | 2-inch. | | 6-inch. | 4-inch. | 2-inch. |
| Bellevue Avenue | | 100 | .... | .... | .... | .... | .... |
| Upham | | 3,283 | .... | 2 | .... | 2 | .... |
| Stevens Place | | | 216 | .... | .... | .... | .... |
| Lebanon | | 2,750 | .... | 2 | .... | 1 | .... |
| Grove | | 1,366 | .... | 1 | .... | .... | .... |
| Walnut | | 187½ | .... | .... | .... | 1 | .... |
| Lynde and Linwood | | 2,960 | .... | 3 | .... | 1 | .... |
| Summer | | 701 | .... | 2 | .... | 1 | .... |
| Wyoming Ave. (East) | | 1,076 | .... | .... | .... | 1 | .... |
| Wyoming Ave. (West) | | | | 3 | .... | .... | .... |
| Chestnut | | 572 | .... | .... | .... | .... | .... |
| Mt. Vernon | | 394 | .... | 1 | .... | .... | .... |
| Auburn | | 372 | .... | .... | .... | 1 | .... |
| Winthrop Place | | 520 | .... | .... | .... | 1 | .... |
| Belmont | | 376 | .... | .... | .... | 1 | .... |
| High | | 376 | .... | .... | .... | 1 | .... |
| Prospect | | 1,026 | .... | 1 | .... | 1 | .... |
| Essex and Lake Avenue | | 1,082 | .... | .... | .... | .... | .... |
| Avon | | 422 | .... | .... | .... | 1 | .... |
| Elm | | 1,057 | .... | 1 | .... | .... | .... |
| Howard | | 272 | 550 | .... | .... | 1 | 1 |
| Upham and Dell Ave. | | 3,488 | .... | 3 | .... | 2 | .... |
| East | | 534 | .... | .... | .... | 1 | .... |
| Washington | | 760 | .... | 2 | .... | .... | .... |
| Irving | | 387 | .... | .... | .... | 1 | .... |
| Emerson Place | | | 251 | .... | .... | .... | 1 |
| Seventh | | | 288 | .... | .... | .... | 1 |
| Wastes 27 x 24 | | 51 | .... | .... | .... | .... | .... |
| 80 Plugs | | 80 | .... | .... | .... | .... | .... |
| Grove Street (East) | 1,865 | 16 | .... | 2 | 1 | .... | .... |
| Emerson Street (East) | 743½ | 10 | .... | .... | 1 | .... | .... |
| Rowe Street | | | 422 | .... | .... | .... | 1 |
| Totals | 17,115 | 60,217 | 7,999 | 81 | 11 | 63 | 7 |

WATER RATES.

DWELLING-HOUSES.

| | Per Year. |
|---|-----------|
| Occupied by one family, for the first faucet | \$6 00 |
| For each additional faucet to be used by the same family, | 2 00 |
| When a house is occupied by more than one family and less than four, one faucet only being used by all, for each family | 5 00 |
| When a house is occupied by four or more families, and but one faucet is used for all, for each family | 4 00 |
| Where a house is occupied by more than one family, the highest rates will be charged for each family having water carried into their part of the house. | |
| For the first water-closet | 5 00 |
| For each additional water-closet | 3 00 |
| For hopper water-closet | 8 00 |
| For first bath-tub | 5 00 |
| For each additional bath-tub | 3 00 |

Provided that no private house shall pay more than \$25 per year.

BOARDING-HOUSES.

| | |
|---|---------|
| For the first faucet | \$10 00 |
| For each additional faucet | 2 00 |
| For water-closet or bath-tub when used for boarders | 10 00 |
| Other charges as above. | |

Where two faucets are used, one for hot and one for cold water, both emptying into one vessel, but one charge will be made for both.

STORES.

| | |
|--|-----------------|
| Occupied as office, shop, or similar purpose | \$6 00 to 20 00 |
| For each additional faucet | 2 50 |
| For water-closet or urinal | 6 00 |

STABLES.

| | |
|-------------------------------------|--------|
| For first horse | \$5 00 |
| For each additional horse | 3 00 |
| For first cow | 2 00 |
| For each additional cow | 1 00 |

FOR LIVERY, CLUB, AND BOARDING STABLES.

| | |
|-------------------------------------|--------|
| For first horse | \$5 00 |
| For each additional horse | 3 00 |

The above includes water for washing carriages.

Where hose is used, \$5 additional.

TRUCK AND CART STABLES.

| | |
|-------------------------------------|--------|
| For first horse | \$5 00 |
| For each additional horse | 2 00 |

The above includes water for washing carriages.

HOSE.

| | |
|--|--------|
| For sprinkling streets, washing windows, and similar uses, | \$3 00 |
|--|--------|

When several desire to use the same hydrant for watering streets or watering gardens, see Superintendent.

HOTELS.

| | |
|---|--------|
| For each bed for boarders and lodgers | \$3 00 |
|---|--------|

BATHS.

| | |
|--|---------|
| For public baths, and for each bath in any hotel . . . | \$10 00 |
| For water-closet in public bath-houses | 10 00 |

STEAM-ENGINES.

| | |
|--|--------|
| For each stationary steam-engine working not over twelve hours a day, for each horse-power | \$6 00 |
|--|--------|

BUILDING PURPOSES.

| | |
|---|--------|
| For every cask of lime or cement used | \$0 05 |
|---|--------|

ORNAMENTAL FOUNTAINS.

Ordinarily used three hours a day for a period of not more than four months a year.

| | |
|--|--------|
| For a jet of one-sixteenth of an inch | \$3 00 |
| For a jet of one-eighth of an inch | 5 00 |
| For a jet of one-quarter of an inch | 8 00 |
| To be cut off at the discretion of the Superintendent. | |

MANUFACTORIES.

And, for all purposes not enumerated in the foregoing rates, special contract to be made with the Water Board.

This schedule of prices was printed in a circular, and distributed among the citizens, with this additional note :—

“All parties wishing Spot Pond Water introduced into their buildings will be required to sign an application for the same ; a book for that purpose may be found at the Town Clerk’s office.”

| | |
|------------------|----------------|
| JOSEPH D. WILDE, | } <i>Water</i> |
| W. IRVING ELLIS, | |
| J. R. SIMONDS, | |

Commissioners.

REPORT OF THE WATER LOAN SINKING FUND COMMISSIONERS.

SHORTLY after the last March meeting, your Commissioners organized by the election of Daniel Russell, Esq., as Chairman, and R. P. Barry as Secretary ; and, in accordance with permission granted by the statute under which this Commission acts, they elected the Town Treasurer, Mr. George Newhall, as Treasurer of the Sinking Fund.

At a subsequent meeting, held June 8, it was voted that the Treasurer and Secretary be instructed to invest the amount in hands of the former, in United States registered bonds, which was

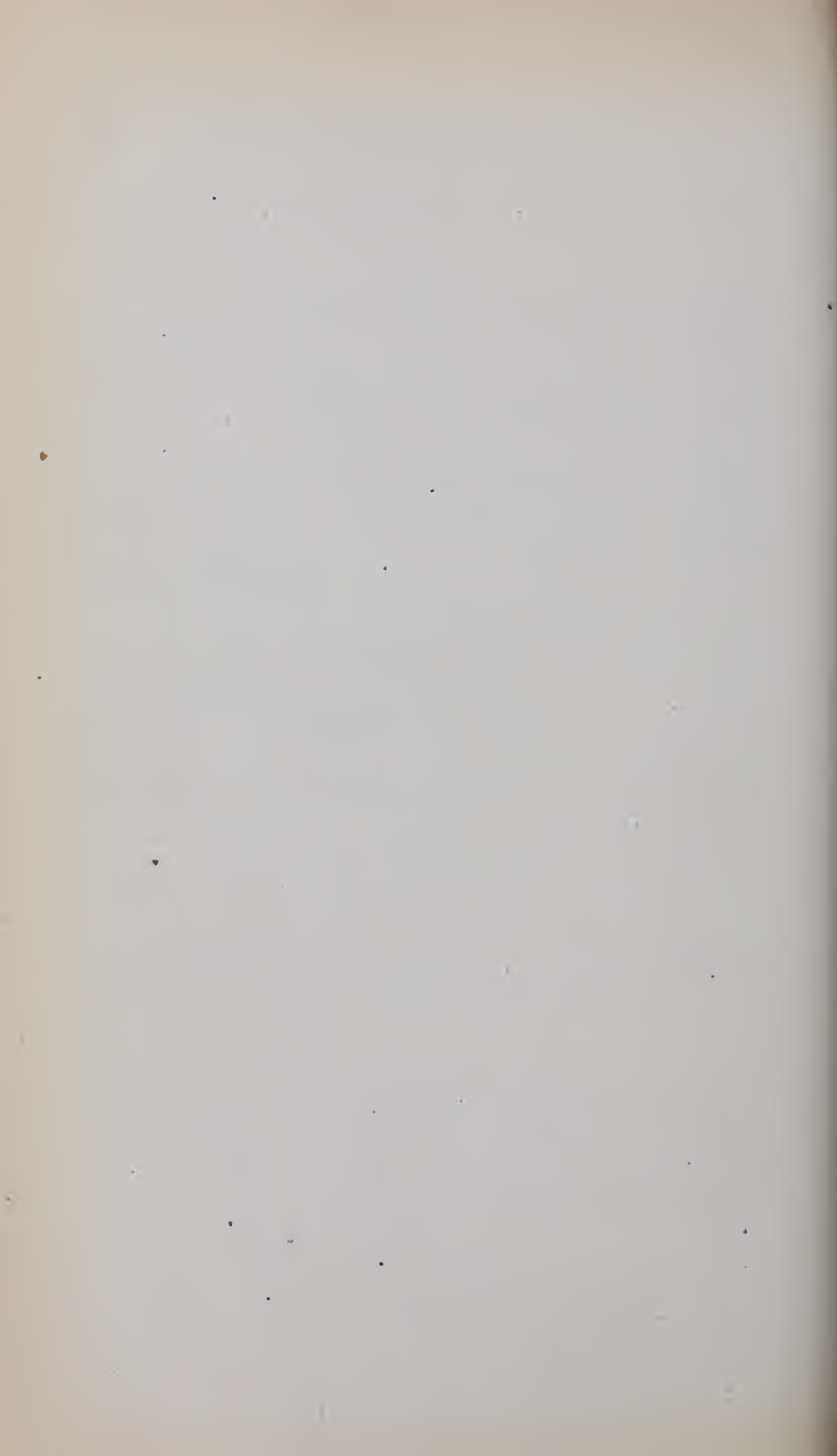
subsequently done; and the condition of the Sinking Fund, Jan. 1, 1879, is as follows:—

STATEMENT.

| | | |
|---|------------|------------|
| By sum received from Town Treasurer, being surplus from Water Fund of 1873 | \$3,635 00 | |
| By sum received from Town Treasurer, being surplus from Water Fund of 1877 | 98 16 | |
| To sum invested in United States registered 4½ per cent bonds, 3 of \$1,000 each, one of \$500, \$3,500. Premium on same, \$170.62, | \$3,670 62 | |
| By six months' interest on above bonds | 78 74 | |
| To amount cash in hands of Treasurer | 141 28 | |
| | <hr/> | <hr/> |
| | \$3,811 90 | \$3,811 90 |

Respectfully submitted.

| | |
|------------------|-----------------------|
| DANIEL RUSSELL, | } <i>Sinking Fund</i> |
| R. P. BARRY, | |
| JOHN W. FARWELL, | |
| | <i>Commissioners.</i> |



EIGHTH ANNUAL REPORT
OF THE
TRUSTEES OF THE MELROSE PUBLIC LIBRARY.

REPORT.

THE Trustees of the Public Library respectfully present their Eighth Report; it being for the term of ten months from March 1, 1878, to Jan. 1, 1879.

The increase in the number of readers in Melrose, and in the number of books which are read annually, has always been a matter of surprise to those accustomed to give thoughtful consideration to the workings of the library system. Your Trustees have always anticipated that this tide of increase of circulation would in time ebb as well as flow. But in the face of accumulating cares, which in the depressed state of business weigh upon all alike heavily, distract the mind from its ordinary pursuits, and tend to break up steady habits of reading, the library has not only kept up to the ratio of increase heretofore recorded, but shows for this term of ten months, which, by the new by-laws of the town, must contain the record of the past season, a larger increase than for the whole of the previous year.

Now that habits of reading prevail very generally throughout the town, it becomes the part of wisdom to influence the various classes of readers, by the best means and agencies, to cultivate and develop this taste.

The Trustees have endeavored within the past three years to increase the line of books needed by those seeking the widest range of information in the matter of general history. It has also been their purpose to lead to careful study of the sciences. Little by little the shelves are receiving additions of permanent value that will permit careful and continuous study in the different ranges of thought.

As the appropriations permit, and the demands warrant, it is their purpose to extend the purchases so that the representative books of all classes of literature may be found upon the shelves of the library.

It may be remarked, that the suggestion made in last year's

report, concerning an organization among the readers of Melrose, in the form of a Reading Club, with one meeting a year for reports, comparisons, and suggestions, has elicited expressions of general interest and approval; the lists of various courses of reading and study are now being procured. As soon as the preparations assume practical form, an opportunity will be given to try the experiment.

We annex the statistics for the year, and extend our thanks to the donors of books, pamphlets, and papers, for their contributions.

DONATIONS. — *Books.*

| | |
|-----------------------------------|-------|
| Green, S. A. | 1 |
| Robbins, Chandler | 1 |
| Stoneham Public Library | 1 |
| | <hr/> |
| | 3 |

Pamphlets.

| | |
|------------------------------------|-------|
| Boston Public Library | 4 |
| Bradlee, C. D. | 1 |
| Chicago Public Library | 1 |
| Lancaster Public Library | 1 |
| Peabody Institute | 1 |
| Tufts College | 7 |
| Wakefield Public Library | 1 |
| Watertown Public Library | 1 |
| | <hr/> |
| | 17 |

Whole number of pamphlets now in library, 166.

Papers.

Baker, J. P., editor, proprietor, and
 publisher "Melrose Weekly Visitor."
 Jefferson, Daniel "The Literary World."

We have also received the public documents and reports of the State of Massachusetts for the year 1876-7; and vols. II. and III. of the Acts and Resolves of Massachusetts, from 1715 to 1756.

STATISTICS.

| | |
|---|-----------|
| Number of volumes in library, March 1, 1878 . . . | 3,629 |
| “ “ purchased in ten months . . . 295 | |
| “ “ donated in ten months . . . 3 | |
| | <hr/> 298 |
| Number of volumes in library Jan. 1, 1879 . . . | 3,927 |
| Number of persons using library, March 1, 1878 . . . | 2,284 |
| “ cards issued in ten months . . . 248 | |
| “ cards relinquished in ten months . . . 19 | |
| | <hr/> 229 |
| Number of persons using library, Jan. 1, 1879 . . . | 2,513 |
| Largest number of volumes issued in one day | 438 |
| Smallest number of volumes issued in one day (stormy) . . | 49 |
| Average number of volumes issued Mondays | 95 |
| Average number of volumes issued Wednesdays and Saturdays | 249 |
| Whole number of volumes issued in March | 3,261 |
| Whole number of volumes issued in August | 2,384 |
| Whole number of volumes issued in November | 2,684 |
| Whole number of volumes issued in December | 2,363 |
| Whole number of volumes issued in ten months | 25,458 |
| Increase of circulation during ten months | 3,703 |

As this report is for ten months only, it may be compared with the same months of last year.

| | |
|--|--------|
| Volumes issued from March 1, to Jan. 1, 1877 . . . | 21,755 |
| Volumes issued from March 1, to Jan. 1, 1878 . . . | 25,458 |
| Increase in ten months | 3,703 |

But, as the new year is to be calculated from Jan. 1, we annex the statistics for the past two years.

| | |
|---|--------|
| Volumes issued from Jan. 1, 1877, to Jan. 1, 1878 . . . | 26,250 |
| Volumes issued from Jan. 1, 1878, to Jan. 1, 1879 . . . | 30,855 |
| Increase in one year | 4,605 |
| Circulation in 1873 | 13,580 |
| Circulation in 1875 | 22,592 |
| Circulation in 1878 | 30,855 |

The average increase in the number of applicants on Monday evenings amounts to twenty-seven per cent, on Wednesdays and Saturdays ten per cent. The library has been open parts of one hundred and twenty-nine days, viz., Wednesday and Saturday afternoons and evenings, and Monday evenings ; it has been closed twice in the ten months on holidays.

Three books have been discarded, and will be replaced by others. Eighty-six volumes worn out in the service have been replaced, and three hundred and ninety-three volumes have been rebound.

In 1871, at the time this library was founded by the town, our neighbors in Malden were making extensive preparations, upon a much larger scale, for the accomplishment of the same purpose. For eight years the people of Melrose have enjoyed the benefits and advantages accruing from prompt and decisive action. It is now our pleasure to congratulate the people of Malden that their public library, now opening its doors, is at length a beneficent reality instead of a long-cherished hope. We understand that a reading-room with magazines and periodicals is to be a feature of the library ; and we await the report of its usefulness and success with much interest.

On account of the increase in the patronage, it has been found necessary on many Saturday evenings to secure the services of two assistants, as the number has exceeded four hundred on many different occasions.

We notice also a decrease in the fund received from dog-licenses, but hope this is only a temporary lack of interest in our canine friends and benefactors.

These items, and the expenditure for replacing worn-out books, have actually reduced the funds at the disposal of the Trustees to a smaller amount than ever.

It is our hope that the town may soon be in condition to appropriate a sum adequate to the growing needs of this department.

For the ensuing year we ask for an appropriation of the sum of four hundred dollars and the dog-tax.

Respectfully submitted, in behalf of the Trustees,

CHARLES C. BARRY, *Secretary.*

| | |
|-------------------|-------------|
| FREDERICK KIDDER, | } Trustees. |
| ELBRIDGE H. GOSS, | |
| A. A. NICHOLS, | |
| HANNAH LYNDE, | |
| CHARLES C. BARRY. | |

Dr. The MELROSE PUBLIC LIBRARY in account with E. H. Goss, Treasurer. Cr.

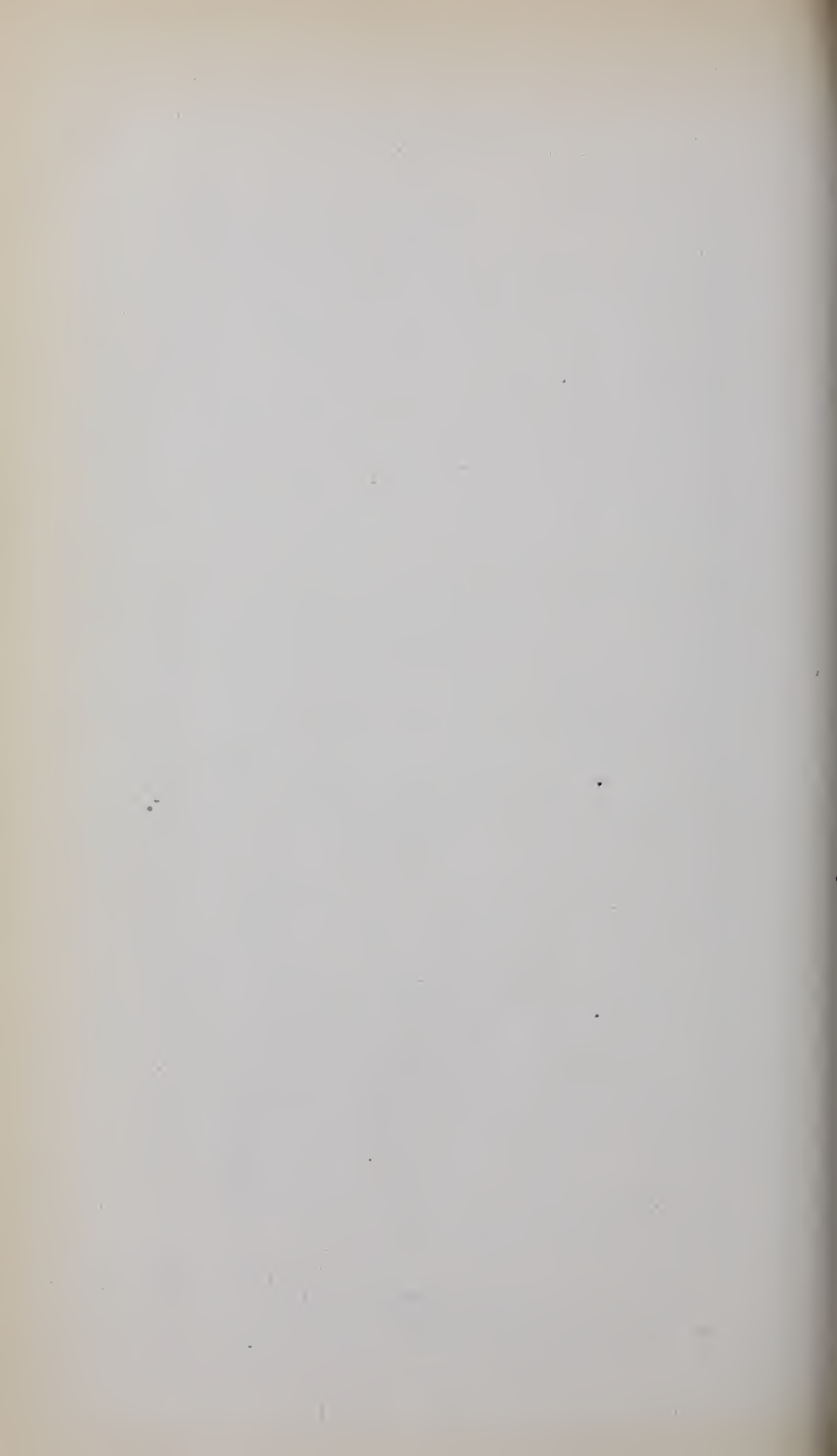
| 1878. | | 1878. | | 1878. | |
|---------------|--|----------|---------------|---|----------|
| Mar. 19, '79. | To cash paid A. W. Lovering, Books . . . | \$237 46 | Mar. 6, | By balance from account 1877-8 | \$11 41 |
| Jan. 22, '79. | " " Miss C. M. Worthen, Librarian . . . | 200 00 | July 1, | cash from Town Treasurer, Dog Tax for 1877, | 437 47 |
| Mar. 20, | " " W. Small, Books . . . | 125 27 | Oct. 19, | cash from Town Treasurer, appropriation for | 400 00 |
| Mar. 20, | " " G. B. Sargent, Ribbons . . . | 1 75 | June 12, | cash from Librarian, for Fines . . . | 46 92 |
| Jan. 22, '79. | " " Tolman & White, Printing . . . | 4 00 | Jan. 22, '79. | cash from Librarian, for Catalogues . . . | 6 00 |
| Nov. 4, | " " P. D. Weston, Binding . . . | 99 00 | | | |
| Apr. 16, | " " Mass. Historical Society, Books . . . | 55 50 | | | |
| Dec. 31, | " " J. J. W. Reeves, Books . . . | 3 50 | | | |
| May 10, | " " Babb & Stephens, Printing . . . | 7 50 | | | |
| June 1, | " " Estes & Lauriat, Books . . . | 30 00 | | | |
| June 28, | " " T. Groom & Co., Blank Book . . . | 1 75 | | | |
| July 29, | " " A. M. Prior, Printing . . . | 15 00 | | | |
| Aug. 31, | " " W. B. Clarke, Books . . . | 5 00 | | | |
| Sept. 16, | " " T. W. Ripley, Printing . . . | 20 40 | | | |
| Oct. 1, | " " Little, Brown, & Co., Books . . . | 38 00 | | | |
| Oct. 1, | " " Eastman's Express . . . | 3 82 | | | |
| Dec. 31, | " " H. F. Thomas, Books . . . | 2 00 | | | |
| Nov. 4, | " " Insurance on Pictures . . . | 3 53 | | | |
| Dec. 10, | " " Houghton, Osgood, & Co., Books . . . | 5 00 | | | |
| Dec. 20, | " " F. S. Drake, Books . . . | 3 50 | | | |
| 24, | " " Extra help, Ink, Mucilage, Gum . . . | | | | |
| 1878-79, | Labels, Frame, Lighters, Pens, Lock, Stamps, . . . | 13 30 | | | |
| | Window Cord, and P. O. Box . . . | 26 52 | | | |
| Jan. 32, | Balance on hand . . . | \$901 80 | | | \$901 80 |

MELROSE, Jan. 22, 1879.

At the request of the Trustees of the Public Library, I have examined the above account, and find it correct, and vouchers therefor.

MELROSE, Jan. 29, 1879.

E. H. GOSS, *Treasurer.*
JOHN LARRABEE, *Town Clerk.*



ANNUAL REPORT OF THE SCHOOL COMMITTEE

OF THE

TOWN OF MELROSE,

FOR THE

YEAR ENDING DECEMBER 31, 1878.

SCHOOL COMMITTEE.—1878-79.

ROYAL P. BARRY, *Chairman.*

LAFAYETTE BURR, *Secretary.*

MOSES S. PAGE.

MISS P. A. NORRIS.

EVERETT W. BURDETT.

MRS. ANN M. KUNHARDT.

The regular meetings of the School Committee are held on the first and third Saturdays of each month, at their room in the Town Hall.

TABLE

Showing the names of the Teachers, their Schools, earliest date of service, and their present salaries.

| SCHOOL. | TEACHERS. | ELECTION. | SALARIES. |
|------------------------------|-------------------------|------------------|------------|
| High | A. G. Whitman . . . | November, 1874. | \$1,500 00 |
| High | Emma A. J. Bugbee . . | November, 1874. | 750 00 |
| High | Frances M. Henshaw . . | September, 1878. | 500 00 |
| First Grammar | Marie H. Friend . . . | March, 1878. | 650 00 |
| First Grammar | Caroline E. Southwick . | September, 1877. | 400 00 |
| Second Grammar, Emerson St., | Lucy W. Bisbee . . . | May, 1867. | 550 00 |
| Second Grammar, Centre . . | Julia M. Porter . . . | May, 1868. | 550 00 |
| Third Grammar, Emerson St. . | Susan D. Melcher . . . | May, 1873. | 500 00 |
| Third Grammar, Centre . . . | Emma M. Cate . . . | October, 1869. | 500 00 |
| Intermediate, Centre . . . | Chastine Emerson . . . | May, 1864. | 450 00 |
| Intermediate, Vinton St. . . | Alice H. Long . . . | September, 1877. | 400 00 |
| Intermediate, Lynde St. . . | K. W. Bascom . . . | September, 1878. | 400 00 |
| Upper School, Green St. . . | Lydia Mendum . . . | November, 1874. | 450 00 |
| Lower School, Green St. . . | Clara I. Nichols . . . | September, 1878. | 400 00 |
| Highlands (mixed) . . . | Myra A. Whitney . . . | September, 1878. | 400 00 |
| Upham Street (mixed) . . . | M. W. Batchelder . . . | September, 1878. | 400 00 |
| Primary, Lynde St. . . . | M. M. Gilman . . . | May, 1863. | 450 00 |
| Primary, Vinton St. . . . | Hannah F. Lewis . . . | March, 1876. | 400 00 |
| Primary, Centre | Florence B. Howland . | November, 1878. | 400 00 |
| Music-teacher | Georgie N. Bordman . . | September, 1874. | 275 00 |

RESIGNATIONS.

FRANCES H. TURNER, First Grammar.

SARAH E. PRATT, Centre Primary.

LOUISE P. ARNOLD, Lynde-st. Intermediate.

MARY L. CHARLES, High School.

M. J. ARNOLD, Lynde-street Intermediate.

Mrs. ETTA HALLOWELL, Highlands.

LYDIA B. THOMPSON, Centre Primary.

REPORT.

TO THE CITIZENS OF MELROSE.

In accordance with the statute and custom, your Committee beg leave to present this, their Annual Report of the condition of your Public Schools.

The fiscal year, according to the new by-laws, ends with Dec. 31. This report, therefore, covers only that portion of the year from March 1 to that date.

CHANGES IN THE SCHOOL BOARD.

Shortly after the organization of the School Board was completed, the Chairman, Mr. T. B. Peck, was compelled, on account of ill health, to tender his resignation. By patient attention to the duties of his office, and by constant and unvarying courtesy, he had endeared himself to his colleagues, who, knowing the value of his services to the town, were very reluctant to permit this withdrawal, but were ultimately compelled to. At a joint meeting of the Selectmen and School Committee held soon after, Mr. Everett W. Burdett was elected to fill the vacancy, and the Board re-organized by the election of the undersigned as Chairman.

RESIGNATION OF TEACHERS.

At the outset of the year we were embarrassed by the resignation of several valued teachers; that of Miss Turner, Principal of the First Grammar School, being handed in at our first meeting.

It is needless to say that it was received with regret. Miss Turner was a teacher of rare culture and refinement, and much loved by her pupils. Closely following this came the retirement, not unexpected, of Miss Sarah E. Pratt of the

Centre Primary School, whose long services in this important position will be gratefully remembered. At about the same time the resignation of Miss Louise Arnold was tendered, a teacher whom we could ill spare, and who adds another name to the roll of teachers that Boston, by her ability to offer better inducements, has taken from us. At the end of April we were pained by receiving the resignation of Miss Mary L. Charles, First Assistant in our High School. Miss Charles had been so long identified with this school, and, indeed, with our town, that we felt impelled to use every argument in our power to urge a reconsideration of the matter on her part, but unavailingly.

It may perhaps be said, without injustice to others, that at no time in the history of our schools has the town met with so serious a loss as this. Her accurate and varied knowledge was no less marked than her courteous and patient attention to her pupils, whose whole after life will be influenced by her example.

At the end of the spring term Mrs. Hallowell, the faithful and efficient teacher of the Highland School, resigned. Four of the above vacancies were filled by the election of the following named teachers:—

| | |
|-------------------------------|-----------------------------------|
| Miss MARIE H. FRIEND to the | First Grammar School. |
| Miss LYDIA B. THOMPSON to the | Centre Primary School. |
| Miss M. J. ARNOLD to the | Lynde-street Intermediate School. |
| Miss MYRA A. WHITNEY to the | Highland School. |

In the High School, Miss Emma A. J. Bugbee was advanced to the position of first assistant, and Miss Ellen A. Stone of Lexington was elected second assistant until the summer vacation, during which we tendered her the position as a permanent one; but, other duties demanding her attention, she declined a re-election, and Miss Frances M. Henshaw was elected to the position.

During the summer vacation Miss Mary Arnold resigned, the vacancy being filled by the election of Mrs. Kate W. Bascom, an experienced and able teacher. Early in the fall

term we received the resignation of Miss Lydia B. Thompson, a teacher whom we were sorry to lose, though she had been in the town's service but a short time. Her place was filled by the election of Miss Florence B. Howland. This lady has had a thorough course of training for her profession, besides some years of experience as a teacher. Some other changes have taken place, which will be noted under the captions of the different schools.

CHANGES IN LOCATION OF SCHOOLS.

During the summer vacation the question of providing suitable quarters for the First Grammar School forced itself upon us. By reference to the table of statistics you will note that this school, prior to summer vacation, numbered only 42, but the promotions from the Second Grammar School promised to double the number, and, as there was not room enough in the Centre building, we were obliged to turn our attention to the High School hall, a portion of which was occupied last year by Miss Melcher's school.

The movable partition which had been taken down to give room for the High School exhibition was restored, and a new partition erected enclosing a space about 25 feet square, adjoining the room above referred to, and receiving its light from the north, — this for a recitation-room. The desks and seats from the Centre School were moved hither, and new ones furnished for the additional number of scholars; and on the 1st of September the school occupied its new quarters.

This change of course compelled others.

The Second Grammar School (Miss Porter), occupying the lower west room of the Centre building, was located in the room vacated by the First Grammar.

The Centre Intermediate, located last year in the High School building, was removed to the room formerly occupied by Miss Porter; while the Third Grammar (Miss Melcher), which last year occupied the High School hall, was moved to room formerly occupied by the Centre Intermediate.

These two buildings are now occupied as follows: —

High School Building: Lower floor, west room, Third Grammar School (Miss Melcher). East room, Second Grammar School (Miss Bisbee). Second floor, the High School. Third floor, First Grammar School (Miss Friend and Miss Southwick).

Centre Building: Lower floor, east room, Primary School, (Miss Howland). West room, Intermediate School (Miss Emerson). Second floor, east room, Third Grammar School (Miss Cate). West room, Second Grammar School (Miss Porter). The present arrangement seems better than any that have preceded it, and may be considered permanent in character, at least until better times permit further outlay for school buildings. The room occupied by the First Grammar School is not all that could be desired. It is rather too warm in summer and the early fall; and owing to its deeply recessed and narrow windows, the light is bad on dull days. The height from the ground is objectionable on several accounts. Otherwise, it is a commodious and comfortable room. The only other change occurred in the Green-street building, and was caused by the formation there of

A NEW SCHOOL.

For the same reason which compelled the changes above referred to (a sudden though not unexpected accession of pupils), we were forced to take a step which has been in contemplation for some time, which the Committee have desired to take, but have not felt compelled to till this year, — the establishment of a new school at the Highlands. This new school, which we denominate the Green-street Upper School, has been placed in charge of Miss Lydia Mendum, formerly in charge of the mixed school in same building. It consists of two classes; the *first* being of the third grammar grade, and the *second* being the same as the *first class* in the intermediate grade. In constituting this school, we have drawn from the Highland and from the Green-street Schools, leaving two, which are still mixed schools, but having *one less class* than before vacation; in consequence of which change

these two schools have been able to do better work than ever before. In their crowded condition prior to vacation, with five distinct grades or classes of scholars,—from the alphabet scholar to the one prepared to enter the grammar school,—the average time for each recitation did not exceed ten minutes. We were glad to be able to ameliorate in some degree this condition of things. In making the third grammar class in the Green-street Upper School, we have been able also to relieve Miss Melcher's school, which would otherwise have been crowded beyond its limits; and finally, we are able to extend to the citizens of this remote district better school accommodations than they have had before, and to which they are certainly entitled. We may add that a petition for the above change, signed by leading citizens of the district, was presented, and formed an additional reason for making the change, though it must have been made in any event, as a measure of sheer necessity.

SCHOOL BUILDINGS.

By reason of the small contingent voted at your last Annual Meeting, we have only made such alterations and repairs as seemed absolutely necessary. At the First Grammar School and at Green Street, some considerable expense was incurred for new seats and desks. At Green and Lynde Street, concrete walks have been laid from the street to the doors of the schoolhouses; and at the former the yard has been graded at a moderate expense. Double windows have been furnished to Upham Street, Highlands, and Green Street. We ventured to have the street end of the Upham-street building painted; most of the rooms were white-washed. By order of Inspector of Public Buildings, we have had the doors on several buildings altered, so that they all now swing outward.

NEEDED REPAIRS AND IMPROVEMENTS.

All the outlying schoolhouses need painting badly. The fences need to be repaired and painted. The High School

and Centre School buildings need *externally* no repairs or painting; but the floors need oiling throughout, and the interior paint of High School needs retouching.

We wish to call your attention also to the fact that nothing has been done toward beautifying the surroundings of your schoolhouses. The High School and Centre buildings are architecturally fine buildings; but nothing, so far as we know, has ever been spent upon the grounds. The reason is, of course, that other improvements have year by year seemed more imperative. While we recognize the fact, that the present is no time to indulge in frivolous or unnecessary expenses, permit us to suggest that a little money spent in grading the land, and in planting shade-trees, or perhaps in fencing, would not be squandered. As regards the Highland, Green-street, Lynde, Vinton, and Upham-street houses, not much can be said for their architectural beauty; but by painting them in neutral colors, and spending a very little money in removing some unsightly bowlders from their yards, they may be made something better than the eyesores they now are. We may add, that, with the co-operation of the teachers, we think it possible to build up a feeling of pride in the schoolhouses, on the part of the scholars, so that good care shall be taken of them: nothing of this sort is possible, however, unless the buildings are put in thorough order.

TEXT-BOOKS.

No change of moment has been made in text-books. In the High School, Jones's Greek Prose Composition has been introduced, for use only of graduating college class.

In the Grammar Schools, Swinton's New Language Lessons, a revised and enlarged edition of the book adopted last year, has been introduced; and, in order that there should be no dissimilarity in the text-books in use, those having the old edition exchanged them for the new, the difference being borne by the contingent. Dinsmore's graded spelling-blanks have also been introduced in all the schools, the spelling and writing being criticised at the same time.

PHYSICAL EXERCISES.

We have introduced the practice of calisthenics in all the schools, adopting Mason's Manual as the standard. Heretofore these exercises in the schools have been irregular, not being obligatory. They are now and will be hereafter a part of the school course, and will prove, we are sure, very beneficial to all,—especially, perhaps, to the younger pupils: nevertheless, it is also true that the need exists in the higher schools as well as the lower. The long session, only broken by a few minutes of recess, needs a “break” here and there; and two or three minutes, now and then, of muscular exercise, clears the brain, at the same time that it straightens the back, and expands the chest. Through some misunderstanding the High School did not adopt the drill at the same time as the other schools, but will hereafter conform to the practice.

PENMANSHIP AND DRAWING.

In penmanship we have sometimes thought our scholars were not quite up to the standard of the best schools in our immediate vicinity. When scholars come to us from Boston, for instance, it has been noted that their handwriting is better than that of our scholars of same age, though we have also found that they were not up to our standard in arithmetic and some other branches. This may, perhaps, be accounted for by the fact, that very early in their school life the study of penmanship begins, and, from that time forward, much special instruction is given in this branch. Not long since one of our number visited the Quincy schools, and brought home for our inspection specimens of the handwriting of children who had been but one year in the primary grade. It was simply marvellous to see how much had been accomplished by special instruction by the best teachers, having each a limited number of pupils. We are giving some attention to this in our lower schools, and we trust some improvement will be manifest another year. Satisfactory progress has been made in *drawing*, in all the schools, though we do not

claim that in this specialty we attain the same standard of excellence as in those schools which have the benefit of special instructors. It may be mentioned that the First Grammar School is doing good work in this branch, and that we have extended the instruction to the fourth class in the High School, under the supervision of Miss Henshaw.

MUSIC.

For a full account of what has been accomplished in this department, we refer you to Mrs. Bordman's report presented herewith. As we have been obliged to command her services in two new schools since last year, and at same time were compelled to reduce her compensation, we relieved her from the care of the three primary schools.

The singing of scholars of this age is, of course, mechanical or imitative only: nevertheless the visit of the music-teacher is a physical and mental rest, and we trust we shall be able another year to command her services in these schools, and also, and *especially*, in the High School. The singing in the First Grammar has never been so good as now, Mrs. Bordman finding here an able coadjutor in Miss Southwick; and, as this class goes forward to the High School, we would be glad to have the tuition follow them, and we trust we shall see as good results in the High School another year.

CHANGES IN SCHOOL SESSIONS.

In response to a petition signed by a large majority of the parents of our High-School pupils, we have added one half-hour to the session on five days in the week, granting Saturday as a holiday; and in accordance with the custom of the past few years, we have adopted the same hours in the First Grammar School for the winter months only.

In all other schools, in place of the former arrangement,—by which the afternoons of Wednesday and Saturday were holidays,—we have adopted the plan of two daily sessions for five days, Saturday being a full holiday. We believe this change will commend itself in time to every citizen as a change for the better. In stating our reasons for making

it, we do not know that we can do better than to use the following extract from the annual report of the Boston School Committee, just published: —

“The change in school regulations, by which there are two sessions for five days in the week, — instead of two sessions for four days, and one session on Wednesday and Saturday forenoons, as formerly, — has now been on trial since September, 1877, and has already proved so satisfactory as to meet with general approbation. There were many reasons for this change. In the High School it was already the rule. No pupil in the other schools could be said to have a single play-day in the week during term-time, under the former arrangement, — a day which was *entirely* free from school-work, a real holiday which could be devoted to play and pleasure. Now Saturday is a whole play-day for the children. If a parent desires to take his child on a day’s excursion, whether on a visit, or to enjoy the country air and the scenery, no work-day need now be taken: there is the Saturday for such recreation. The statistics show that the average attendance in all the grammar and primary schools was smaller on Saturdays than on any other days in the week, and recent investigations prove that the attendance on Wednesday afternoons is much better than it was on Saturday forenoons.

“There is no doubt that the work of the schoolroom is better performed in the symmetrical daily sessions than in the broken sessions at the end of every two days. The masters tell us that the work on Wednesday and Saturday forenoons was not as satisfactory as on other days in the week. It is believed that the present system is more conducive to the health of the pupils than the former. It is better for the teachers, as well as the pupils; the half-days Wednesday and Saturday did not give that rest that the whole day Saturday gives. Teachers have not so much fresh force on Monday when they teach on Saturday as they have with closed schoolrooms from Friday till Monday morning.”

These and similar reasons impelled us to make the change. It may be added, that the present system, while it may be said to be an experiment in Massachusetts, has been the established custom in most other communities since the inauguration of the public-school system.

If there were any thing objectionable in the custom, it would doubtless have been discovered, and changes to the Massachusetts system would have occurred here and there; but we believe, as a matter of fact, that all communities which have once tried the present plan have never found any reason to change the same.

SALARIES AND APPROPRIATIONS.

At the last March meeting, it will be remembered that the sum of eleven thousand dollars was appropriated for the salaries of teachers, and the care and heating of the school buildings. This sum being considerably less than the appropriation of the preceding year, we were obliged to make a further reduction in salaries; and, after careful deliberation, we concluded to make such reduction in the pay of all the teachers as would practically amount to ten per cent of their former salaries. We do not desire in this report to enter on the discussion of the question of school appropriations, or of the wisdom or unwisdom of any past action of our town; such a discussion would be out of place in its pages. We may be permitted to say, however, that we have no reason to differ from the judgment expressed in the last annual report, that the scale of salaries *then* in operation was not unreasonable, but, as compared with other towns, equitable and fair. We have lost some good teachers: their places have been filled by others who are doing good work; and yet it "goes without saying," that these constant changes in teachers are demoralizing to the schools, and must be avoided as much as possible.

In most other towns there is a scale of compensation increasing with each year of service until the maximum salary is reached. By reference to the tabular statement of salaries, it will be noted that many of our teachers have served a long period; and, while the remuneration we are able to offer in the lower grades of schools is not amiss for the graduate of the normal school who may be just entering the profession, it certainly is not enough for the experienced teacher. We may add, that, when a teacher has devoted ten or fifteen of the best years of her life to the service of a community, the relation becomes, or *should* become, something more than a mere financial one. Recurring again to the matter of appropriations, it will be noticed that we have been forced to overrun the contingent somewhat; and it may be added, that, carrying the year forward to its usual termination, it

would be found that the *main* appropriation will be exceeded *also*, perhaps \$600.

This we regret. At the beginning of the year we so arranged the current expenses as to come very nearly within the appropriation; but the necessity which arose for the employment of an assistant in the First Grammar School, and the establishment of the new school at the Highlands, compelled us to pass beyond the limit. We *could* not further reduce salaries: our only other course would have been, to have curtailed the school session one month. This, we felt, would not meet your approval.

For the coming year we recommend an appropriation for salaries of teachers, janitors, and for fuel (in addition to the deficiency of \$600 above referred to) of \$12,500, and for contingent expenses (in addition to the deficiency of \$296.66) the sum of \$2,000.

THE PRIMARY SCHOOLS.

These schools, located severally at Lynde Street, Vinton Street, and Centre buildings, are respectively in charge of Miss Gilman, Miss Lewis, and Miss Howland. Of the first-named teachers, nothing need be added to what has been said in commendation in former school reports. Miss Howland, in the short time she has been in the school, has accomplished much good work.

These schools, it will be noticed, average fifty scholars each, that at Vinton Street having the largest number. Prior to vacation these schools were discouragingly large, and we decided to adopt the half-time plan, sending the older children one half the day, and the younger children the other half; but with the fall term the number decreased, and we concluded to defer the experiment. The younger scholars are habitually dismissed early, thus relieving the teacher of their care, and enabling her to devote her entire attention to the older pupils. Our children enter the public schools too early, as a rule. If every child could receive the primary education at home, entering school at six or seven years of age, we could do better work in this grade; but, so long as the primary

school is used as a nursery by parents who are unwilling or unable to begin the education of their children at home, the work in this department will be unsatisfactory.

In more favored communities than ours, the kindergarten comes in here, caring for and educating the child from four to six years old; but the expense of maintaining these schools places them beyond our reach. In their absence, however, we desire from time to time to introduce the kindergarten methods with the blocks, cards, and other aids to that work. The expense will not be great, and may come from the contingent.

THE MIXED AND INTERMEDIATE SCHOOLS.

Of the former, the Upham-street School is now the only one which preserves its old character, carrying the pupil through four or five, sometimes six, years of school work, preparing him for the third grammar grade. We trust that this part of the town will soon develop so that we can make this school a simple primary. Miss Southwick, who was in charge last year, is now assistant in First Grammar; and her place has been filled by Mrs. M. W. Batchelder, a teacher of experience, and a resident of the town. The Highland School is in charge of Miss Myra A. Whitney, a teacher of thorough training and ability; the change in the character of this school has been previously referred to in this report. The Green-street Lower School is in charge of Miss Clara I. Nichols, a lady who, without much previous experience in teaching, has had the advantage of thorough normal training, and who has given entire satisfaction in her position.

The Green-street Upper School is in charge of Miss Lydia Mendum, and embraces a class of the third grammar grade, reference to which has been previously made, and a class of the intermediate grade. It will be understood that we only tolerate these mixed schools (relics of the old district-school system), looking forward hopefully to the time when, by reason of increased number of pupils, we may be able to reconstruct, and place them in harmony with the other schools.

The Intermediate Schools, three in number, are the Centre

School, Miss Chastine Emerson ; Vinton Street, Miss Alice H. Long ; and Lynde Street, Mrs. K. W. Bascom, the latter a new teacher in Melrose, but who brings to her work the results of experience gained in the schools of Boston and elsewhere. The discipline in this school previous to Mrs. Bascom's engagement was somewhat chaotic, but leaves nothing to be desired at the present time.

THE GRAMMAR SCHOOLS.

The First Grammar School contains, as will be noticed, about eighty scholars, and, under the care of Miss Friend and Miss Southwick, is doing very satisfactory work, in some respects more satisfactory than in former years. On the part of the scholars, there seems to be an unusual degree of enthusiasm and *esprit de corps*, which augurs well for the future. We shall send a large class to the High School at the end of the year, and we have reason to believe it will compare favorably with the graduating classes of other years.

The Second Grammar Schools, under charge of Miss Bisbee and Miss Porter, and the Third Grammar Schools, under Miss Melcher and Miss Cate, are doing the usual amount of thorough work. Whatever doubts may exist from time to time, in our minds, about the completeness and thoroughness of school work in other grades, *here* we rest satisfied. All these teachers have been with us a long term of years ; their work is thorough, their devotion to their profession may be termed exceptional ; and we trust we may be able to retain their services many years to come.

Permit us to call your attention to the course of study, for use of the primary and grammar grades, printed herewith. This course prepared by a sub-committee, consisting of Mr. Burr, Miss Norris, and Mrs. Kunhardt, while it does not differ radically from the course which was theoretically in use before, lays down a definite plan to which all the schools are expected to conform ; and, without hampering or clogging the individual action of the teachers unnecessarily, it assures a certain symmetry in the school work, which was perhaps lacking before.

OUTLINE COURSE OF STUDY IN THE MELROSE PUBLIC SCHOOLS.

PRIMARY SCHOOLS. — THREE YEARS.

THIRD GRADE.

Reading. — The elementary sounds and familiar words to be learned from charts and the blackboard. First Reader.

Spelling. — Words of regular formation. Familiar words in common use. Copying from the board or Reader upon paper or slates ruled for the purpose.

Numbers. — Teach by means of objects and figures, numbers to twelve. Simple exercises in addition and subtraction.

Drawing and Writing. — Printing or writing simple letters. Drawing of lines and angles.

SECOND GRADE.

Reading. — Second Reader, with other books of similar grade. Training in elementary sounds. Cultivation of conversational tones.

Spelling. — Spelling of words from the Reader and from dictation, by sounds and letters. Written exercises upon ruled paper or slates. Use long pencils.

Numbers. — Write and read numbers by letters and figures to one hundred. Addition and subtraction tables, with simple examples upon the slate.

Drawing and Writing. — Simple words of small letters to be written carefully from dictation. Teach names of lines and angles, with practice in combining them.

FIRST GRADE.

Reading. — Second Reader. Exercises for correcting indistinct enunciation. Omit concert reading. Recognize marks of abbreviation and punctuation in common use.

Spelling. — Monroe's Practical Speller. Oral and written exercises. Observe previous directions.

Numbers. — Primary Arithmetic. Multiplication and Division tables, U. S. money, time, liquid and dry measures. Train pupils to add without counting.

Drawing and Writing. — As in previous grade, with copying of short sentences. Letter writing. Care should be taken to teach a proper position for sitting, holding slates, pencils, &c.

Music. — Rote singing, for cultivation of the voice and ear. Singing of the scale, ascending and descending. Written exercises embodying principal signs and rules.

Gymnastics. — Two or three times in each session, every pupil should take part in physical exercises, about five minutes each time. These may be accompanied by counting and music.

General Exercises. — Oral lessons upon familiar objects should be given each day. Also lessons on morals and manners, illustrated by anecdotes and daily occurrences, and by the teaching of maxims, verses, &c. Teach days of the week, seasons, and months of the year, points of compass, with relative position of familiar places. Time, as indicated by the clock.

INTERMEDIATE SCHOOLS. — TWO YEARS.

SECOND GRADE.

Reading. — Third Reader. Lead the pupils to analyze lessons. Training in elementary sounds. Definitions of words, chiefly by their use in sentences. Punctuation.

Spelling. — Monroe's Speller. Oral and written exercises. Miscellaneous words in common use. Abbreviations committed to memory. In the writing exercise, use long pencils, and blank books prepared for the purpose.

Arithmetic. — Eaton's Intellectual Arithmetic. Written Arithmetic without a text-book, performing examples in addition and multiplication. Write and read numbers by figures to one million. Tables of weights and measures completed and reviewed.

Geography. — First Lessons in Geography. Use the text as a reading lesson. Many oral lessons upon globes, maps, &c. Important map questions committed to memory.

Penmanship. — Commence writing with a pen. No. 1 and 2 Writing Book. Much practice on waste paper. Blackboard illustrations by the teacher.

Drawing. — Dictation exercises by the teacher. Memory drawing. Outlines of familiar objects from simple copies.

FIRST GRADE.

Reading. — Third Reader. Careful analysis. Use other books of similar grade. Frequent exercises in vocal culture. Omit concert reading. Occasional recitation of selections committed to memory.

Spelling. — As in previous grade, with the writing of sentences from dictation. Teach proper use of capitals and of punctuation-marks. Letter writing.

Arithmetic. — Mental Arithmetic continued. Eaton's Common School Arithmetic, through the simple rules, omitting the memorizing of definitions. Many problems and illustrations not in the book. Analysis of practical problems. Oral drills for rapid combination of numbers.

Geography. — Review thoroughly and complete the "Primary Geography." Rudimentary map-drawing.

Penmanship. — No. 3 Writing Book. Great attention paid to position, pen-holding, &c. Let the work be simultaneous. Frequent opportunities for rest.

Drawing. — As in previous grade.

Music. — Review the work of primary grades. Reading at sight exercises in key of C. Practice in beating two, three, and four part measure. Exercises requiring alto parts.

Gymnastics. — At least once in each session give simple physical exercises. Care should be taken to secure an erect and graceful attitude, and to call into motion muscles on both sides of the body.

General Exercises. — Once in every week object lessons should be given by the teacher, requiring oral or written descriptions afterwards from the pupils. Form habit of using correct language. These lessons should treat of the human body, habits, health, and hygiene, plants, animals, food, occupations, tools, &c. Moral lessons by stories and incidents.

GRAMMAR SCHOOLS. — THREE YEARS.

THIRD GRADE.

Reading. — Fourth Reader, with other books of similar grade. Careful analysis of lessons. Occasional concert reading. Vocal drill.

Spelling. — Monroe's Practical Speller, with exercises in miscellaneous words and sentences. Spell chiefly by writing. Use blank books prepared for the purpose.

Arithmetic. — Eaton's Intellectual Arithmetic. Analysis of problems involving the principles of reduction and fractions. Written Arithmetic, through common fractions.

Geography and History. — Study of the Continents. Teach topically. Occasional practice in map-drawing.

Language. — Swinton's Language Lessons. Composition writing a frequent exercise, chiefly on slates, for securing rapidity and facility of expression.

Penmanship. — Writing Book No. 4. Dictation exercises by the teacher. Frequent practice on waste paper.

Drawing. — Smith's Drawing Book No. 1. Special instruction as to proper position, holding pencil, &c.

Music. — Review previous work. Transposition of the scale. Exercises in the keys of G and F.

General Exercises. — Calisthenic exercises once in each session. Oral drills in Arithmetic. Oral instruction on the elements of the sciences, requiring subsequent descriptions from pupils. Moral Lessons.

SECOND GRADE.

Reading.—Fifth Reader. Selections from newspapers, periodicals, and standard authors. Recitation of selections. Vocal drill.

Spelling.—Review of Speller, with words from the different text-books used. Write with pens in blank books prepared for the purpose.

Arithmetic.—Intellectual Arithmetic completed. Decimals, Interest, and Percentage, with principles of Compound Numbers. Frequent practice in the fundamental rules.

Geography and History.—Geography of United States in detail. Map-drawing, not elaborate, but chiefly to show relations between the different countries. History of United States to the Revolutionary War. Recitations in Geography and History should alternate throughout the year.

Language.—Text-book in previous use completed. Compositions upon familiar subjects. Special attention to punctuation, use of capitals, &c.

Penmanship.—Copy-book adapted to grade. Observe previous directions.

Drawing.—Drawing Book No. 2. Dictation exercises by the teacher.

Music.—Reading easy exercises at sight in keys previously learned. Writing from dictation. Practice of music in two and three parts. Keys of D and B flat.

General Exercises.—As in previous grade.

FIRST GRADE.

Reading.—As in previous grade.

Spelling.—Words of difficult orthography. Attention to syllabication, definitions, derivations, &c.

Arithmetic.—Written Arithmetic finished. Metric System. Many practical problems illustrating ordinary business transactions.

Geography and History.—History of United States completed. Occasional reviews of important geographical topics.

Physiology and Practical Hygiene.

Language.—Swinton's English Grammar. Compositions. Letter-writing, commercial and social. Declamation and poetical recitations.

Penmanship.—Instruction continued as in the preceding grade, with practice in the writing of paragraphs, verses, business forms, notes, superscriptions, &c.

Drawing.—Exercises of previous grade continued, with practice in drawing from objects. Teach applied design.

Music.—Review all previous work, with the addition of a bass clef. Exercises in transposition. Study of important rules. Singing of exercises at sight.

General Exercises.—Physical exercises once in each session. A few minutes daily practice in mental arithmetic. Conversational lessons and debates upon history, ancient and modern, biography, Physical Geography, &c.

THE HIGH SCHOOL.

This school is in charge of A. G. Whitman, principal, and Miss Bugbee and Miss Henshaw, assistants. Miss Henshaw has been connected with the school since September. During the months of September and October, we were deprived of Mr. Whitman's services on account of illness. We were fortunate, however, in procuring as a substitute Dr. J. W. Keene, a classmate of Mr. Whitman, an experienced teacher, whose methods were much the same as those in use in the school: hence we are pleased to say that every thing moved along smoothly and well.

The course of study is unchanged from last year: we append it to this article, in order that it may come freshly before you. Some minor changes have seemed to us desirable, and these may be made during the coming year; but they will practically alter the course but little. Early in the year, when the question of reducing current expenses came up for discussion, the practicability of curtailing the number of teachers, and, as a matter of course, the amount of education imparted, came under consideration.

The matter was thoroughly discussed by the Board, and was then referred to a sub-committee consisting of Messrs. Barry, Burr, and Burdett, who, after careful consideration, submitted the following report:—

“The sub-committee appointed to consider the High School question, as it now presents itself to the Board,—i.e., whether it is practicable, or desirable *if* practicable, to carry on the school with two teachers instead of three,—beg leave to present following report:—

“The only valid reason for making a change is, that the town will save the sum of four hundred dollars.

“The reasons and arguments against the change are many and varied.

“1. Good work cannot be done in a school of ninety or more pupils, without seriously contracting the present course of study.

“2. The course now in use has been carefully prepared, has much that commends itself to the judgment of educators; and, while it is doubtless capable of alteration and improvement, it could easily be *altered without* improving it. At any rate, it has not yet had a fair trial.

“3. The only way, or rather the easiest way, to reduce the number

of recitations, and relieve the teachers, seems to be to drop the college course; and while it may seem poor economy to prepare boys for college, at what seems a large expense, it might well prove to be *worse* economy, if we should place our High School on a lower plane than schools of same character in near surrounding towns.

“4. The course of study, as now arranged, suits the teachers. They are teaching branches which they like, and it is probable that they do better work in these branches *because* they like them; a re-distribution of studies would entail work on the part of the two remaining teachers, which they do not especially fancy, and for which it is probable they are not so well suited.

“5. With three teachers, it will, no doubt, be possible to introduce some changes in the school. *Drawing* has been named; and it would seem that some attention should be paid to it, and also to penmanship. These changes will be out of the question with two teachers.

“*Finally*, as it is much easier to tear down than to build up, as the school is now running smoothly, as any change would be very likely to bring about resignations of one or both of the old teachers remaining, and inasmuch as such change would be, in our judgment, an irremediable damage to the school, we beg to recommend the retention of the three teachers now employed in our High School.”

The report was accepted; and it was voted to continue the same course of study for the year, and to retain the services of three teachers.

In the last annual report, the question of the desirableness of maintaining a good school, and the legal requirements concerning the same, were so ably set forth, that it is unnecessary to say more on that topic here. The position seems to be,—

1. The town is obliged to support a high school.

2. The town is obliged to teach in this school certain branches of study, and inferentially obliged to teach others, which practically compels her to maintain such a course of study as that now in use.

These facts being admitted, it perhaps follows logically that we need enough teachers so that a thorough knowledge of the required branches may be imparted. Then arises the question of support; and this we have always given with a liberal hand, in the way contemplated by the Commonwealth, by merging the cost with other school expenses, raising the whole by direct taxation.

There is another method which has been lately advanced, — countenanced by some leading men, among whom may be named President Eliot of Harvard College. This method, born of the theory that the State owes its children nothing beyond a common-school education, provides for the support of high schools by *tuition fees*, to be paid by the parents who send pupils to the school; but, in order that the children of the poor should not be excluded, it is also proposed that a certain portion of the expense of the school should be borne by the town, which would thereby endow a certain number of free scholarships, which could be conferred on those children whose parents or guardians were unable to pay the regular fees.

The system under which we have been working is *democratic*, the system proposed seems essentially *aristocratic*. The practice of the latter plan would infallibly build up class distinctions, and make the high school, in a few years, merely an academy for educating the children of the rich or “well-to-do” classes. As it stands now, the rich man pays liberally from his abundance for the education of the poor man’s child, while the poor man also contributes his share toward the education of the whole.

The present system seems to us equitable and just, and we should regret to see it displaced by any other.

Referring again to the course of study, we will remark that, whatever it may be hereafter, it is plain that the work cannot be accomplished by a smaller corps of teachers than is now employed. Sixteen pupils will graduate this summer, while not less than fifty will enter from the First Grammar School. This will make the number in the High School next fall not far from 115. This fact must not be lost sight of. It may be possible to economize in the quality of the work, by employing poor teachers; but the *number* of teachers, good or bad, cannot now be reduced. The course as now presented is symmetrical and comprehensive; and the only question which sometimes arises is, whether time is spent in acquiring a knowledge of abstruse topics, which

might be spent to better advantage in obtaining a larger acquaintance with branches which are more likely to become useful in after-life to the great majority.

It has been suggested by one of our number (and the suggestion is one which is worthy of very careful consideration), whether some of the studies, among which may be named geology, astronomy, political economy, and the science of government, and history (in part), may not be taught by *lectures*. This system, it is known to you all, is in use in many universities and higher schools, and it may be found to be applicable here. We think it safe to say, that by the judicious use of note-books and books of reference, with an occasional recitation, as good an acquaintance with the subjects named might be acquired as under the present system.

It has also been suggested, that the regular corps of instructors might be supplemented by volunteers from among our citizens, who might be willing to give an hour or two occasionally to lectures on such subjects, as, by reason of long study and special culture, they may be peculiarly fitted to talk upon. It would not be difficult to name several, whose services in this way would be very valuable, and who would, we think, cheerfully respond to an invitation of this kind.

If such a system is practicable, and could be inaugurated, the pupils would have a little more time for the remaining studies; and this extra time could be devoted to longer and more frequent reviews. The latter part of the fourth year should, we think, be devoted almost exclusively to reviewing, not only the studies of the year, but of the whole course; and also of the more important subjects (as English grammar, arithmetic, and physiology) which were pursued before entering the High School: to the end, that graduation may mean a fairly thorough preparation for whatever may follow, whether it be a further course of study, or business-life.

As an indication of the good work of our High School in the past, it may not be amiss to say that the young ladies who have entered the Salem Normal School are found to rank exceptionally well; and, at the last examination, Melrose

stands at the head of all other towns represented in that school.

The graduating exercises, at the close of the school year, took place in the High School hall, in place of the Town Hall, and differed somewhat from former occasions of this kind, several recitations and examinations being included in the order of exercises. Your committee were much pleased to note a simplicity of attire on the part of the graduating class, which may be termed a desirable departure from the practice of some former years. There is a desire on the part of many friends of the school, that the next exhibition may be held in the Town Hall; and, inasmuch as it will be impracticable to use the High School Hall, this course will probably be pursued. The tendency of these exhibitions in the past has been to distract the attention of the graduating class from their closing studies. If the class will be satisfied to dress simply, and present an entertainment which will not demand a severe course of training, the objection to these displays will be *mainly* removed.

If any apology is needed for devoting so much space in this report to the High School, it may be found in our desire to place before you all the facts in our possession, — a duty which is more easily and clearly accomplished in these pages than it could possibly be in the Annual Town Meeting.

CATALOGUE OF THE HIGH SCHOOL, JAN. 1, 1879.

First Class.

| | |
|-----------------------|-----------------------|
| LOUISE I. DRAKE. | *CLARA A. WITHEY. |
| *FANNIE L. BROOKS. | MINNIE L. WOODMAN. |
| HANNAH J. GIBBONS. | ARTHUR M. BURR. |
| MARY ALICE JONES. | †WILLIAM A. DOLE. |
| ADA E. LOWE. | †GEORGE R. JONES. |
| MARY AGATHA RORKE. | EDWARD C. MORGAN. |
| AMY M. STANTIAL. | EDDIE B. STANTIAL. |
| RUTH C. STETSON. | †CHARLES H. WASHBURN. |
| †WILLIAM H. WILLIAMS. | |

* English course. † College course. Not designated, Classical course.

Second Class.

* ABBY E. AVERILL.
 GRACE A. BRYANT.
 ABBY M. BEMIS.
 FLORENCE M. ELLIS.
 MARY LYNDE.
 ANNIE F. STILPHEN.

ABBY J. VINTON.
 EMMA A. WEEKS.
 JOSEPH R. GIBBONS.
 †ALBERT H. HAYWOOD.
 †HENRY J. HERSEY.
 †MARK S. W. JEFFERSON.

Third Class.

MARY E. BUFFUM.
 HATTIE E. DAMON.
 *CORR DUTTON.
 *HELEN A. FOSTER.
 *HATTIE M. E. GILMAN.
 *MARY A. GOSS.
 †MABEL L. GOSS.
 †LILLIAN C. HALL.
 ANNIE M. SPRAGUE.
 CORA L. TOPPAN.
 ETTA D. TRAFONT.
 *ALFRED H. ALDRICH.
 †CLARENCE A. BACKER.

LIZZIE H. HASKELL.
 †HELEN J. LOVEJOY.
 *HELEN M. LEAVITT.
 *ANNIE P. LONG.
 NELLIE A. MANSFIELD.
 *ISABELLA PAUL.
 *FRANCES L. SNOW.
 *HARRY A. BORDMAN.
 †CHARLES L. SIMMONS.
 OTIS B. STANTIAL.
 WILLARD T. STETSON.
 *WILLIAM B. WEBSTER.
 †WILLIAM R. WOODBURY.

Fourth Class.

*JENNIE B. BARRETT.
 *LILLIAN A. BOARDMAN.
 *DELIA A. BURNS.
 JENNIE F. CONANT.
 *MARY J. DRISCOLL.
 *MARY A. DUFFY.
 MERELLA J. GIBBONS.
 HENRY L. ALDRICH.
 †ARTHUR W. BARRETT.
 CHARLES H. BENNETT.
 *GEORGE H. BOURNE.
 *WALLACE BRYANT.
 †THOMAS S. BURR.
 WINSLOW S. COBB.
 †GEORGE H. CONANT.
 THOMAS COWHEY.

*CATHERINE F. HAWKINS.
 *HATTIE M. KEITH.
 CLARISSA W. LYNDE.
 ANNIE S. MURPHY.
 *FLORENCE A. PICHARD.
 FLORENCE A. THAYER.
 *FLORENCE N. WITHEY.
 HENRY DRAKE.
 †EDWARD W. FRENTZ.
 †CHARLES D. JONES.
 WM. J. MCCOUBRY.
 †HENRY C. MILLER.
 GEORGE W. MYRICK.
 †HENRY C. OLIVER.
 WINFIELD P. PIERCE.
 *DANIEL B. RUSSELL.

LEONARD F. WILLIAMS.

* English course. † College course. Not designated, classical course.

COURSE OF STUDY OF THE MELROSE HIGH SCHOOL, JAN. 1, 1878.

FIRST YEAR.

| | COLLEGE COURSE, FOUR YEARS. | CLASSICAL COURSE, FOUR YEARS. | ENGLISH COURSE, THREE YEARS. |
|-----------|---|---|--|
| 1st Term. | Bradbury's Algebra, to Greatest Common Divisor. Payson, Duntton, & Scribner's Book-keeping. Allen & Greenough's Latin Grammar, and Leighton's Latin Reader. | Bradbury's Algebra, to Greatest Common Divisor. Payson, Duntton, & Scribner's Book-keeping. Allen & Greenough's Latin Grammar, and Leighton's Latin Reader. | Bradbury's Algebra, to Greatest Common Divisor. Payson, Duntton, & Scribner's Book-keeping. Martin's Civil Government. |
| 2d Term. | Algebra, to Section XV. Book-keeping, completed. Latin Grammar and Reader. | Algebra, to Section XV. Book-keeping, completed. Latin Grammar and Reader. | Algebra, to Section XV. Book-keeping, completed. Civil Government, completed. |
| 3d Term. | Algebra, to Affected Quadratic Equations. History of England: Freeman's Historical Course. Latin Grammar and Reader. | Algebra, to Affected Quadratic Equations. History of England: Freeman's Historical Course. Latin Grammar and Reader. | Algebra, to Affected Quadratic Equations. History of England: Freeman's Historical Course. |
| 4th Term. | Algebra, reviewed. History of England, completed. Latin Grammar and Reader, completed. | Algebra, reviewed. History of England, completed. Latin Grammar and Reader, completed. | Algebra, reviewed. History of England, completed. English Grammar, completed. |

SECOND YEAR.

| | | | |
|-----------|--|--|---|
| 1st Term. | Algebra, completed. Caesar's Commentaries, Book I. Goodwin's Greek Grammar, and Leighton's Greek Reader. | Algebra, completed. Caesar's Commentaries, Book I. Martin's Civil Government. Hart's Rhetoric: Longfellow's Evangeline. | Algebra, completed. Norton's Elements of Physics. Bocher's Otto's French Grammar and Reader. Hart's Rhetoric: Longfellow's Evangeline. |
| 2d Term. | Bradbury's Geometry, Book I. Caesar, Books II. and III. Greek Grammar and Reader. | Bradbury's Geometry, Book I. Caesar, Books II. and III. Civil Government, completed. Rhetoric: Irving's Sketch Book. | Bradbury's Geometry, Book I. Physics, completed. French Grammar and Reader. Rhetoric: Irving's Sketch Book. |
| 3d Term. | Geometry, Books II. and III. Caesar, Book IV., and review. Greek Grammar and Reader. | Geometry, Books II. and III. Caesar, Book IV. and review. Ancient Geography and History of Greece, History Primers. Rhetoric: Irving's Sketch Book. | Geometry, Books II. and III. Eliot & Storer's Chemistry. French Grammar and Reader. Rhetoric: Irving's Sketch Book. |
| 4th Term. | Geometry, Books IV. and V. Sallust's Catiline. Greek Grammar and Reader. | Geometry, Books IV. and V. Sallust's Catiline. History of Rome, History Primers. Rhetoric: Whittier's Snow-Bound. | Geometry, Books IV. and V. Chemistry, completed. French Grammar, to Part II., and Reader. Rhetoric: Whittier's Snow-Bound. |

| | | | |
|-----------|---|---|--|
| 1st Term. | Norton's Elements of Physics. Sallust, completed. Xenophon's Anabasis, Book I. Greek Grammar. | Norton's Elements of Physics. Sallust, completed. Böcher's Otto's French Grammar and Reader. English Literature: Shakspeare. | Dana's Geology, by notes. French Reader, completed, and Grammar. Brooke's Primer of English Literature: Chaucer. |
| 2d Term. | Physics, completed. Cicero's Orations against Catiline I., and II. Anabasis, Books II. and III. Greek Grammar. | Physics, completed. Cicero's Orations against Catiline I., and II. French Grammar and Reader. English Literature: Shakspeare. | Lockyer's Elementary Astronomy. French Grammar: Le Roman d'un Jeune Homme Pauvre. English Literature: Milton. |
| 3d Term. | Ancient Geography, and History of Greece, History Primers. Cicero's Orations, III. and IV.; Latin Prose Composition. Anabasis, Book IV. Greek Grammar and Greek Prose Composition. | Eliot & Storer's Chemistry. Cicero's Orations, III. and IV. French Grammar and Reader. English Literature: Spenser. | Gray's Lessons in Botany. French Grammar: Les Fables de La Fontaine. Physical Geography. English Literature: Study of Authors. |
| 4th Term. | History of Rome, History Primers. Cicero and Sallust, reviewed; Latin Prose Composition. Anabasis, reviewed. Greek Prose Composition. | Chemistry, completed. Cicero and Sallust, reviewed. French Grammar, to Part II., and Reader. English Literature: Dryden or Pope. | Botany (Practical Analysis). French Grammar completed; La Fontaine, com- pleted. Mineralogy, by notes. English Literature: Study of Authors. |

FOURTH YEAR.

| | | | |
|-----------|---|--|---|
| 1st Term. | Homer's Iliad, Book I. Virgil's Æneid, Books I. and II. Böcher's Otto's French Grammar and Reader. Latin and Greek Prose Composition. | Dana's Geology, by notes. Virgil's Æneid, Books I. and II. French Reader, completed, and Grammar. Brooke's Primer of English Literature: Chaucer. | Scholars are required, on entering the school, to select the course of study which they intend to pursue, and will not be allowed to make a change without the consent of the Principal. Regular exercises in Read- ing, Declamation, and Composition, are continued throughout each course. |
| 2d Term. | Iliad, Book II. Æneid, Books III., IV., and VII. French Grammar and Reader. Latin and Greek Prose Composition. | Lockyer's Elementary Astronomy. Æneid, Books III. and IV. French Grammar: Le Roman d'un Jeune Homme Pauvre. English Literature: Milton. | |
| 3d Term. | Gray's Lessons in Botany. Æneid, Books V., VI., and VIII. Iliad, Book III.; Latin and Greek Prose Com- position. French Grammar and Reader. | Gray's Lessons in Botany. Æneid, Books V. and VI. French Grammar: Les Fables de La Fontaine. English Literature: Study of Authors. | |
| 4th Term. | Botany (Practical Analysis). Æneid, reviewed, and Book IX. French Grammar, to Part II., and Reader. Reviews. | Botany (Practical Analysis). Æneid, reviewed. French Grammar, completed; La Fontaine, completed. English Literature: Study of Authors. | |

EVENING SCHOOLS.

Early in the winter, applications were made to us for education, by several persons, who, by reason of the lack of educational privileges in early life, had nearly attained the age of manhood, with only such learning as could be acquired in a year or two in our primary schools. In one case the applicant expressed a willingness to enter the primary school; but this seemed unadvisable.

The necessity of evening schools is certainly not so great in our town, as in others where there are large manufacturing industries. We think it our duty, however, to call your attention to the fact that such applications have been made, and that the means for support of said school, if it should be deemed desirable to establish same, must come from a direct appropriation for that purpose.

INDUSTRIAL EDUCATION.

You are aware that sewing has been introduced in the schools of Boston, and of several other cities and towns: we think there are many good reasons for teaching it in our public schools. The report of the Boston School Committee has a chapter on this subject, which we would gladly lay before you if space permitted. We mention the subject here, simply with the hope that in the near future, when "times" improve, we may be able to add this to our course of study.

SCHOOL SUPERVISION.

It has, no doubt, occurred to many, as it has to your committee, that it would be possible to have a more thorough supervision than is now practised.

The majority of your committee, while they have each taken many days from their several avocations, have felt that they would gladly have given more. The lady mem-

bers have been assiduous in their school work, but they also have duties which require their attention at their homes. We trust the time will come when the town will be able to hire a school superintendent, who will devote his *whole time* to *our schools*, a *competent* man, a *thorough educator*, and one who will be "*conservatively radical*" in his changes in the school work. Such a superintendent our neighboring town of Malden has been fortunate in securing. But, until we can afford to offer compensation sufficient to secure such an one, we recommend a continuance of the present plan. Under it we have the benefit of a certain amount of independent thought and action of a corps of conscientious, educated teachers, who are, in the main, right in their ideas and methods.

Under a superintendent, a part of the responsibility which is now borne largely by the teachers would be shifted to his shoulders. Again, it must be remembered that the superintendent will be very likely to have clearly defined views as to what the schools must become under his care. The schools will "run in a rut." If the "rut" be the right one, the result will be good; but under the wrong man it might easily happen that we should get into the "wrong rut." It will be seen, therefore, that we do not favor the system of county supervision, or the other plan which has been broached, of the union of several towns under one superintendent.

VISIT OF STATE BOARD OF EDUCATION.

We take pleasure in mentioning the visit of the Hon. J. W. Dickinson, secretary of the Board of Education, and of his colleague Mr. Walton. At the suggestion of Mr. Dickinson, an afternoon meeting was held, which was attended by the teachers, the School Committee, and several of our High School graduates. Two sections of school work were set forth and elaborately explained by Mr. Walton; followed by questions from the teachers, and a general discussion of school methods. In the evening Mr. Dickinson addressed an au-

dience (which we were sorry could not have been larger) in the Town Hall, on "The Principles of Education."

In closing this report, we trust that the year to come will be one of substantial progress in all our schools, and that by an equitable appropriation at the March meeting you will free us from the embarrassments which have hampered us the past year.

Respectfully submitted.

ROYAL P. BARRY,
For the Committee.

SCHOOL REGULATIONS.

SECTION 1. The schools shall commence during the year at nine A.M. and two P.M., closing at twelve M. and four P.M. No extended session allowed.¹

SECT. 2. The school year shall consist of forty weeks, commencing on the first Monday in September, and closing on the last Friday in June.

Vacations shall occur during the school year as follows:—

Close of fall term, from the Wednesday previous to the annual Thanksgiving, to the Monday following.

Christmas week.

Close of winter term, from the second Saturday to the third Monday in February.

Close of spring term, from the fourth Saturday in April to the first Monday in May.

Close of summer term, end of school year.

Also, all legal holidays.

SECT. 3. Teachers shall be in their schoolrooms fifteen minutes before the opening of the school, admitting pupils, commencing exercises promptly at the hours specified.

SECT. 4. Teachers *themselves* shall hear all recitations.

SECT. 5. Teachers are not to absent themselves from school, or procure substitutes without the consent of the committee. All such absences are to be distinctly recorded in the school registers, and the chairman of the committee notified of any unavoidable violation of this rule.

SECT. 6. Teachers are required to report all damages to

¹ This section amended, as regards High School sessions, and winter sessions of First Grammar School: see report.

school property, unless repairs are immediately made at the expense of parent or guardian.

SECT. 7. "The several school-teachers shall faithfully keep the registers furnished to them, and make due return thereof to the School Committee; and no teacher shall be entitled to receive payment for services until the register, *properly filled up and completed*, shall be so returned."¹ A fortnight's notice required of resignations, except in case of sickness.

SECT. 8. In case of inclement weather, when, in the judgment of the committee, it shall be thought proper to omit the forenoon or afternoon session, notice will be given by ringing the town bell at a quarter before eight A.M., or a quarter before twelve o'clock, A.M.

SECT. 9. Teachers may temporarily suspend pupils from school for truancy or gross violation of rules; informing the committee at once of such suspension, and the reason therefor.

SECT. 10. Pupils must attend schools in the district in which they reside; must be at least five years of age, and obtain a permit, before entering, from the committee. *Alphabet* scholars admitted only at the beginning of a term.

SECT. 11. Pupils are required to furnish themselves with such text-books as are authorized by the committee. In case of refusal or neglect, the books will be furnished by the committee, and the town assessors be notified, that the value may be collected from the parent or guardian. Orders sent by teachers to the town agent must have the name of the parent or guardian. Books furnished to indigent scholars shall be considered the property of the school, and be retained when the pupil is discharged.

SECT. 12. Pupils shall not be dismissed before the close of the school (*alphabet classes excepted*) without a written request from the parent or guardian. Frequent and repeated requests can be disregarded, and the committee informed of

¹ Extract from Revised Statutes.

the evil. Parents shall be notified of absences or tardiness of pupils when explanation or information is deemed necessary.

SECT. 13. Pupils absent a term, *or not present at the quarterly examinations*, shall be considered new pupils, liable to lose their connection with their class, and needing on their return a permit from the committee (alphabet scholars excepted).

SECT. 14. Pupils shall have a recess of twenty minutes at each morning session, and no pupil will be allowed to leave the school-grounds without a special permit from the teacher.

SECT. 15. Pupils guilty of defacing or injuring school-houses, school-furniture, outbuildings, fences, or school property in general, shall be subject to such penalty as the statute prescribes, or the committee deem proper.

SECT. 16. Pupils are not allowed in school-yards after school-hours, or during holidays or vacations; are not allowed in other school-yards than their own, at any time, unless sent with messages.

SECT. 17. The duties of the several janitors shall be to sweep each schoolroom and entry twice every week; wash the floors and windows during each of the vacations of May and November; clean and wash all outbuildings as often as necessary; keep steps and paths free from snow in winter; close gates when schools are not in session; report to teachers or committee all injuries to property; prepare and put in the coal and wood, practise rigid economy in its use, and have a general oversight of the buildings in their care. No extra pay for any of the above services.

SECT. 18. No wares or amusements shall be advertised in the schools without the consent of the committee.

SECT. 19. Teachers shall read to the pupils, at such times as they deem expedient, any or all of the foregoing Rules and Regulations.

TABLE OF STATISTICS

For the year ending Jan. 1, 1879.

| SCHOOLS. | Maximum No. from March 1 to July 1. | Average attendance during same time. | Maximum No. from Sept. 1 to Jan. 1. | Average attendance during same time. | No. of Pupils, Jan. 1, 1879. | Per cent of attend- ance for the year. | Average age Jan. 1, 1879. |
|---|--|---|--|---|---------------------------------|---|------------------------------|
| High, First Class | 10 | } 78.7 | 18 | } 87.2 | 88 | 96.7 | Yrs. Ms. |
| Second Class | 16 | | 13 | | | | 18 .. |
| Third Class | 22 | | 29 | | | | 16 5 |
| Fourth Class | 35 | | 33 | | | | 16 6 |
| Totals | 83 | 78.7 | 93 | 87.2 | 88 | 96.7 | 16 3 |
| First Grammar | 42 | 38.5 | 81 | 74.5 | 78 | 96.3 | 13 9 |
| Second Grammar, Emerson Street, | 41 | 36.5 | 37 | 34.5 | 35 | 96.+ | 13 1½ |
| Second Grammar, Centre | 42 | 38 | 38 | 34.6 | 37 | 94.5 | 13 5 |
| Third Grammar, Emerson Street | 46 | 42 | 50 | 45.5 | 47 | 94 | 12 .. |
| Third Grammar, Centre | 52 | 45.6 | 49 | 45.6 | 48 | 94.7 | 11 5 |
| Intermediate, Centre | 44 | 40.+ | 44 | 41.+ | 44 | 94.5 | 9 3 |
| Intermediate, Vinton Street | 56 | 48 | 49 | 41 | 48 | 95 | 10 5 |
| Intermediate, Lynde Street | 41 | 37 | 38 | 34 | 34 | 94.6 | 9 10 |
| Green Street (upper school) | } 56 | 49 | { 41 | 37 | 41 | 90 | 11 .. |
| Green Street (lower school) | | 49 | | 33 | 37 | 90.+ | 7 6 |
| Highland (mixed) | 57 | 50 | 45 | 38.5 | 38 | 92.5 | 8 .. |
| Upham Street (mixed) | 42 | 34.5 | 41 | 34.3 | 38 | 84 | 9 .. |
| Primary, Centre | 67 | 52 | 54 | 44.3 | 48 | 82 | 6 .. |
| Primary, Lynde Street | 54 | 44 | 48 | 38 | 46 | 89.5 | 7 6 |
| Primary, Vinton Street | 65 | 55 | 60 | 53 | 58 | 92 | 7 6 |
| | 788 | 688.8 | 805 | 716.+ | 765 | 92.7 | |

99

116

56

141

105

REPORT ON MUSIC
IN THE
PUBLIC SCHOOLS OF MELROSE,
BY
MRS. GEORGIE N. BORDMAN,
Musical Instructor.

REPORT.

MELROSE, Feb. 1, 1879.

Mr. Chairman, and Members of the School Committee.

I present the third annual report on music in the public schools of Melrose for your consideration, and also for all citizens of the town who are interested in a study which has done so much to enliven the hours of school-work, and bring happiness to the children.

FIRST GRAMMAR.

The chorus of this grade exceeds in number that of any previous year during my acquaintance with public-school work. The voices that I have watched with special interest now fill their proper places in the rendering of three-part songs; showing by careful study what they may accomplish the present year, and also giving promise of still greater achievements in the future.

“The Hour of Singing” seems full of interest to the class, who are trying to make careful and thorough progress in the keys of C, G, and D; reading first by syllable, then applying the rules, and afterwards adapting words.

Distinct vocalization, and fine musical effect, can only be aimed at with children. But, though it may not be accomplished, some force and expression may be realized by persistent example on the part of the instructor; and so, at least, lay a foundation for future cultivation of musical taste and appreciation.

While the same obstacles must naturally exist in reading from the bass-clef, a persevering spirit seems earnestly at work among the boys, to conquer harsh tones, and contribute their best effort toward “the mighty harmonies that music breathes, made up of blended tones and melody.”

SECOND GRAMMAR.

These classes, though not so large as last year, are laboring diligently, and in rudimental work have thus far given evidence that what I endeavor to explain is understood and retained by them.

Two-part songs, ranging from the scale of C to D, have been studied by musical notation and syllable, with constant reviews of previous work, and repetition of important questions in connection with each lesson. "The Hour of Singing" affords great enjoyment as well as practical work; and the class are allowed to make their own selections occasionally, and learn, or rehearse, without previous suggestions from me, and the results have been very creditable.

Children are led in this way to think they can stand on their feet alone; and so are encouraged to grow stronger in self-confidence, and try again, better satisfied to learn the task without being continually supported and prompted by the teacher.

THIRD GRAMMAR.

I congratulate myself and the schools of this grade (including the class at Green Street) on having a better alto class this year, both in number, and quality of tone. With such material to work with, I value every moment or thought which can in any way interest the children, or stimulate their ambition.

Two-part songs in the scale of C and G have been frequently reviewed; each new melody being first read by syllable, learning the value of notes, time, and accent, before applying the verses; so that the songs may not be memorized by the words, or learned, except in accordance with the common, simple rules of music. Lessons are written upon the blackboard, or selected from the music-charts. As many of the pupils at the Centre Third Grammar own "The Headlight," pieces which can be made practical are taken from that work.

VINTON STREET, GREEN STREET, LYNDE STREET, AND CENTRE
INTERMEDIATE.

I have adopted the same plan in each of these schools, giving easy progressions in the natural scale, together with alto exercises. Much time is devoted to explanation and questions, and the practice of pure tone and correct time. Few melodies have as yet been given, except a motion or marching song, to enliven the hour occasionally, and please the children.

Music charts and blackboard examples furnish the rudiments here, or a song of sheet-music which I supply, by way of variety, when I desire something different in character from the routine of daily work. The little music cards have been a pleasant feature in my school-work, and a strong incentive to study. The classes are all advancing, and doing good work in sight-reading, as well as in vocalizing and memorizing all those fundamental rules which are to form a permanent basis for future advancement.

HIGHLAND AND UPHAM STREET.

The amount of pleasant and profitable work accomplished in this grade is owing to the fact that the music day has become an indispensable privilege, something continually "looked and longed for" by the children; and so the time is earnestly improved, inasmuch as all are interested and willing. Simple intervals of the natural scale by note and syllable, the value of rests, signatures, construction of the staff, and careful pronunciation of words in singing, form the principal portion of our work at the present time, with the addition of alto practice, at Upham Street.

The boys were desirous to try two-part exercises, — an ambition which I always feel it a duty to encourage. Considering the absence of musical instruments at home with many of these children, and realizing that all they learn of music is imparted in the schoolroom, I am pleased with the improvement and progress in this grade, as well as greatly encouraged by the happy spirit that brightens my labor, and bids me a cheerful welcome.

Every effort has been made thus far, to present the study of music in a simple, comprehensive manner, to the children; and I

have constant evidences from the teachers, that nothing is overlooked practically in reviewing the lessons.

In view of our united efforts, I feel sure that the parents will encourage the love of music at home, as far as possible, inasmuch as their influence is a great power in the schoolroom; and their personal interest will not only be appreciated by our teachers, but will show its beneficial results at the end of the year.

In presenting my report for 1879, I cannot refrain from expressing a deep regret that the limited appropriations have debarred me from my customary delightful hours with the children of the primary schools.

The frequent and affectionate salutations from the little ones assure me that the "singing day" is a pleasant thing of the past, which they patiently hope will be revived again ere long,—a hope which the parents have re-echoed with the heartiest sincerity.

Though I may be fortunate in gaining great results from my efforts in the higher grades, the memory of the little ones will be ever present,—a host of twinkling eyes filled with merriest music, and a band of tinkling voices, like silver bells, that need but a breath to stir their pure vibrations, and fill the room with sweetest music.

Believing that the course of study in music, which has been proposed by the committee, can be accomplished during the present year, and hoping for the same continued, harmonious co-operation with all those officially connected with our public schools,

I remain very respectfully,

MRS. GEORGIE N. BORDMAN,
Musical Instructor.

ASSESSORS' REPORT FOR 1878.

ASSESSORS' REPORT FOR 1878.

| | |
|---|-------------|
| Total number of inhabitants | 4,221 |
| Total number of children between five and fifteen years of age | 807 |
| Total number of polls taxed | 1,183 |
| Amount of tax on polls | \$2,366 00 |
| Amount of tax on real and personal estate | 48,309 57 |
| | <hr/> |
| | \$50,675 57 |
| Amount of appropriation | \$43,703 06 |
| Amount of State tax | 2,380 00 |
| Amount of county tax | 1,719 22 |
| Amount of overlay | 2,873 29 |
| | <hr/> |
| | \$50,675 57 |
| Total value of real estate | \$3,661,500 |
| Total value of personal estate | 364,298 |
| Rate of taxation, \$12 on \$1,000. | |
| Number of dwellings and buildings for business pur- poses | 1,045 |
| Number of horses | 262 |
| Number of cows | 131 |
| Number of acres of land taxed | 2,700 |

ABATEMENTS FOR 1878.

| | |
|------------------------------|--------|
| Mr. George Bemis | \$3 00 |
| Mrs. G. C. Jacobs | 5 40 |
| Mrs. Ellen Wing | 4 80 |
| Mrs. M. A. Wheeler | 8 50 |
| Mr. Orn Upham | 5 94 |
| Achsah Pratt | 12 00 |
| G. G. Nichols | 1 20 |

| | |
|---|---------------|
| <i>Amount carried forward</i> | <hr/> \$40 84 |
|---|---------------|

| | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---------|
| <i>Amount brought forward</i> | . | . | . | . | . | . | \$40 84 |
| Heirs of David Faulkner | . | . | . | . | . | . | 2 10 |
| Estate of George W. Crocker | . | . | . | . | . | . | 17 60 |
| Estate of Levi Miles | . | . | . | . | . | . | 6 00 |
| Anna Higgins | . | . | . | . | . | . | 3 00 |
| S. M. Emerson | . | . | . | . | . | . | 1 80 |
| George Bartlett | . | . | . | . | . | . | 2 40 |
| W. J. Farnsworth | . | . | . | . | . | . | 6 42 |
| Eri Upham | . | . | . | . | . | . | 2 40 |
| E. R. Chace | . | . | . | . | . | . | 2 58 |
| Estate of John Hurley | . | . | . | . | . | . | 6 88 |
| William Buckman | . | . | . | . | . | . | 2 00 |
| Miss Lucinda Porter | . | . | . | . | . | . | 2 80 |
| U. S. Pettingill | . | . | . | . | . | . | 120 00 |
| Mrs. John Colligan | . | . | . | . | . | . | 11 10 |
| Mrs. J. H. Higgins | . | . | . | . | . | . | 30 00 |
| Estate of A. P. Lynde | . | . | . | . | . | . | 13 20 |
| George F. Boardman | . | . | . | . | . | . | 10 00 |
| Jason Elms | . | . | . | . | . | . | 60 |
| Abigail Cutter | . | . | . | . | . | . | 2 00 |
| Cornelius Monehan | . | . | . | . | . | . | 2 00 |
| J. L. Withey | . | . | . | . | . | . | 2 00 |
| Mrs. S. S. Twombly | . | . | . | . | . | . | 6 00 |
| Mrs. Hiram Whitney | . | . | . | . | . | . | 14 50 |
| William Babb | . | . | . | . | . | . | 2 00 |
| William Frye | . | . | . | . | . | . | 2 00 |
| E. H. Moore | . | . | . | . | . | . | 2 40 |
| A. V. Lynde | . | . | . | . | . | . | 12 00 |
| Mrs. H. McLaughlin | . | . | . | . | . | . | 12 20 |
| Mrs. Mary Vinton | . | . | . | . | . | . | 7 50 |
| E. W. Simonds | . | . | . | . | . | . | 80 |
| J. J. McCullough | . | . | . | . | . | . | 82 |
| Mrs. Eva Dean | . | . | . | . | . | . | 36 60 |
| Mrs. Nehemiah Dean | . | . | . | . | . | . | 16 80 |
| John A. Parker | . | . | . | . | . | . | 6 00 |
| N. P. Jones | . | . | . | . | . | . | 24 00 |
| James Sayes | . | . | . | . | . | . | 24 44 |
| Michael Kelley | . | . | . | . | . | . | 13 50 |

Amount carried forward \$469 28

131

| | | | | | | |
|-------------------------------|---|---|---|---|---|-----------------|
| Sundry poll-taxes and others | . | . | . | . | . | \$121 84 |
| Sundry poll-taxes and others | . | . | . | . | . | 129 62 |
| Mrs. N. K. Hunt | . | . | . | . | . | 16 60 |
| James Sayes | . | . | . | . | . | 15 00 |
| Michael Powers | . | . | . | . | . | 33 25 |
| Mrs. Nathaniel Budd | . | . | . | . | . | 5 00 |
| Mrs. Eva Dean | . | . | . | . | . | 40 00 |
| Stephen Hyde | . | . | . | . | . | 17 94 |
| <i>Amount carried forward</i> | . | . | . | . | . | <u>\$379 25</u> |

| | |
|-------------------------------|----------|
| <i>Amount brought forward</i> | \$379 25 |
| Mary C. Woodman | 22 50 |
| Sarah E. Stilphen | 6 25 |
| Mrs. Charles Stevens | 6 25 |
| William Noyes | 44 50 |
| Estate of B. C. Evans | 35 00 |
| Mrs. Judkins | 9 00 |
| Samuel H. Waitt | 3 75 |
| Hannah Lynde | 5 37 |
| | <hr/> |
| | \$511 87 |

Respectfully submitted.

| | |
|-------------------|-----------------------|
| J. C. CURRIER, | } <i>Assessors of</i> |
| C. T. STEVENS, | |
| HENRY A. LEONARD, | |

Melrose.

ABATEMENTS FOR 1877.

| | |
|--|--------|
| Avery, Mrs. H. A. (widow) | \$1 88 |
| Andrews, J. A. | 2 00 |
| Agry, Thomas | 2 00 |
| Adams, John | 2 00 |
| Alden, Frederick | 2 00 |
| Abbott, John W. (poll, \$2.00; personal, \$3.13) | 5 13 |
| Brownie, John | 2 00 |
| Buffum, Theodore | 2 00 |
| Brooks, William H. | 2 00 |
| Butland, Charles H. | 2 00 |
| Brigham, George N. | 2 00 |
| Cragin, James T. | 2 00 |
| Connell, John | 2 25 |
| Cleaveland, George R. | 2 00 |
| Coleman, Daniel E. | 2 00 |
| Chandler, Edward | 2 00 |
| Dixon, George | 2 00 |
| Delano, Thomas J. | 9 50 |
| Edwards, James M. | 2 00 |
| Emerson, Joseph | 2 00 |

| | | |
|-------------------------------|-------|---------|
| <i>Amount carried forward</i> | <hr/> | \$50 76 |
|-------------------------------|-------|---------|

| | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---------|
| <i>Amount brought forward</i> | . | . | . | . | . | . | \$50 76 |
| Ford, William W. | . | . | . | . | . | . | 2 00 |
| Hatch, William A. | . | . | . | . | . | . | 2 00 |
| Hatch, Joseph H. | . | . | . | . | . | . | 2 00 |
| Hunt, N. K. | . | . | . | . | . | . | 2 00 |
| Ireland, T. S. & Co. | . | . | . | . | . | . | 2 50 |
| Kirmes, V. C. | . | . | . | . | . | . | 2 00 |
| Littlefield, Frederick D. | . | . | . | . | . | . | 2 00 |
| Lear, Samuel | . | . | . | . | . | . | 2 00 |
| Lang, Frank | . | . | . | . | . | . | 2 00 |
| Mosely, Abner | . | . | . | . | . | . | 2 00 |
| Mosely, William A. | . | . | . | . | . | . | 2 00 |
| Mayall, Miles | . | . | . | . | . | . | 25 00 |
| Morong, Thomas | . | . | . | . | . | . | 2 00 |
| McIlhardy, James | . | . | . | . | . | . | 2 00 |
| Murray, John | . | . | . | . | . | . | 2 00 |
| Noyes, Edward L., estate of | . | . | . | . | . | . | 2 00 |
| Nowell, Oliver S. | . | . | . | . | . | . | 2 00 |
| Noyes, F. W. | . | . | . | . | . | . | 2 00 |
| Norton, Harry R. | . | . | . | . | . | . | 2 00 |
| Nixon, Charles | . | . | . | . | . | . | 2 00 |
| Polk, C. W. | . | . | . | . | . | . | 18 75 |
| Penny, Daniel | . | . | . | . | . | . | 1 24 |
| Perrins, Samuel | . | . | . | . | . | . | 2 00 |
| Phillips, Walter R. | . | . | . | . | . | . | 25 00 |
| Ristine, Albert J. | . | . | . | . | . | . | 2 00 |
| Reed, Samuel | . | . | . | . | . | . | 2 00 |
| Shaw, George D. | . | . | . | . | . | . | 2 00 |
| Spear, William | . | . | . | . | . | . | 2 00 |
| Towner, George W. | . | . | . | . | . | . | 3 25 |
| Terry, R. H. | . | . | . | . | . | . | 2 00 |
| Vincent, P. H. | . | . | . | . | . | . | 2 00 |
| Roe, L. B. & Perkins | . | . | . | . | . | . | 34 38 |

 \$210 88

J. C. CURRIER,
 C. T. STEVENS,
 HENRY A. LEONARD.

Assessors of Melrose.

ABATEMENTS FOR 1876.

No. of
tax-bill.

| | | |
|-----|-----------------------|--------|
| 1 | Adams, John S. | \$2 00 |
| 4 | Anderson, John H. L. | 2 00 |
| 28 | Alexander, Josiah | 2 00 |
| 33 | Adams, William | 2 00 |
| 70 | Burnham, E. W. | 2 00 |
| 76 | Bisbee, J. D. | 2 00 |
| 23 | Anthes, F. C. | 2 65 |
| 59 | Brownie, John | 2 00 |
| 132 | Brooks, A. H. | 2 00 |
| 135 | Butman, O. A. | 2 00 |
| 143 | Bickford, Nelson W. | 2 00 |
| 145 | Burleigh, George | 2 00 |
| 150 | Bales, Michael | 2 00 |
| 151 | Brooks, William H. | 2 00 |
| 162 | Chandler, Edward | 2 00 |
| 167 | Cass, Henry D. | 2 00 |
| 171 | Cleaveland, George R. | 2 00 |
| 172 | Casey, Jeremiah | 2 00 |
| 180 | Clark, John H. | 2 00 |
| 181 | Casey, Daniel | 2 00 |
| 183 | Connelly, Michael | 2 00 |
| 200 | Clinton, George | 2 00 |
| 211 | Coolidge, Charles J. | 5 57 |
| 216 | Coombs, Edward S. | 2 00 |
| 223 | Crawford, W. B. | 2 00 |
| 224 | Covelle, Mahew A. | 2 00 |
| 225 | Clayton, R. F. | 3 30 |
| 226 | Clayton, Austin W. | 2 00 |
| 232 | Case, George | 2 00 |
| 240 | Curran, William | 2 00 |
| 241 | Cross, George C. | 2 00 |
| 244 | Cheever, Samuel O. | 2 00 |
| 245 | Cheever, Asa | 2 00 |
| 248 | Chambers, John L. | 2 00 |
| 249 | Cunningham, James B. | 2 00 |

Amount carried forward . . . \$75 52

| No. of tax-bill. | <i>Amount brought forward.</i> | | | | | | | | |
|---------------------|---------------------------------|---|---|---|---|---|---|---|---------|
| | | | | | | | | | \$75 52 |
| 251 | Campbell, James (dead) | . | . | . | . | . | . | . | 2 00 |
| 253 | Cullen, John (dead) | . | . | . | . | . | . | . | 2 00 |
| 257 | Currier, S. E. & Co. (personal) | . | . | . | . | . | . | . | 130 00 |
| 261 | Davis, Abbott A. | . | . | . | . | . | . | . | 2 00 |
| 269 | Damon, Charles M. | . | . | . | . | . | . | . | 2 00 |
| 280 | Double, George E. | . | . | . | . | . | . | . | 2 00 |
| 283 | Dempsey, John, jun. | . | . | . | . | . | . | . | 2 00 |
| 284 | Drew, Patrick | . | . | . | . | . | . | . | 2 00 |
| 286 | Drury, Converse | . | . | . | . | . | . | . | 2 00 |
| 290 | Danforth, F. C. | . | . | . | . | . | . | . | 2 00 |
| 292 | Downs, Albert | . | . | . | . | . | . | . | 2 52 |
| 301 | Delaney, James | . | . | . | . | . | . | . | 2 00 |
| 302 | Delaney, George | . | . | . | . | . | . | . | 2 00 |
| 303 | Day, Charles | . | . | . | . | . | . | . | 2 00 |
| 304 | Dill, Nathan A. | . | . | . | . | . | . | . | 2 00 |
| 308 | Duffers, James | . | . | . | . | . | . | . | 2 00 |
| 310 | Donnovan, William | . | . | . | . | . | . | . | 2 00 |
| 316 | Erickson, H. | . | . | . | . | . | . | . | 2 97 |
| 327 | Emerson, Leonard | . | . | . | . | . | . | . | 2 00 |
| 349 | Ellsworth, J. H. B. | . | . | . | . | . | . | . | 2 00 |
| 354 | Finger, Louis | . | . | . | . | . | . | . | 2 00 |
| 370 | Follansbee, John H. | . | . | . | . | . | . | . | 2 00 |
| 377 | Flannigan, Edward | . | . | . | . | . | . | . | 2 00 |
| 379 | Frye, William | . | . | . | . | . | . | . | 2 00 |
| 392 | Fitzer, William | . | . | . | . | . | . | . | 2 00 |
| 399 | Forrest, D. E. | . | . | . | . | . | . | . | 2 00 |
| 405 | Fox, A. C. | . | . | . | . | . | . | . | 2 00 |
| 406 | Fox, A. R. | . | . | . | . | . | . | . | 2 00 |
| 409 | Flanders, William | . | . | . | . | . | . | . | 2 00 |
| 416 | Grover, Charles | . | . | . | . | . | . | . | 2 00 |
| 417 | Grover, George W., jun. | . | . | . | . | . | . | . | 2 00 |
| 445 | Graham, Michael | . | . | . | . | . | . | . | 2 00 |
| 448 | Gage, A. Willis | . | . | . | . | . | . | . | 2 00 |
| 452 | Hyde, George S. | . | . | . | . | . | . | . | 2 00 |
| 459 | Holt, L. A. | . | . | . | . | . | . | . | 2 00 |
| 460 | Harris, George Wheeler | . | . | . | . | . | . | . | 2 00 |
| 461 | Holbrook, George | . | . | . | . | . | . | . | 2 00 |

Amount carried forward. . . . \$279 01

| No. of tax-bill. | <i>Amount brought forward.</i> | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|----------|
| | | | | | | | | | \$279 01 |
| 468 | Horr, George L. | . | . | . | . | . | . | . | 2 00 |
| 490 | Hallett, S. S. | . | . | . | . | . | . | . | 2 00 |
| 506 | Howes, Ephraim O. | . | . | . | . | . | . | . | 2 00 |
| 510 | Hudson, J. P. | . | . | . | . | . | . | . | 2 00 |
| 511 | Heeny, William T. | . | . | . | . | . | . | . | 2 00 |
| 512 | Heeny, John | . | . | . | . | . | . | . | 2 00 |
| 530 | Hunt, Charles F. (poll, \$2.00; personal, \$1.95) | . | . | . | . | . | . | . | 3 95 |
| 531 | Herling, Andrew | . | . | . | . | . | . | . | 2 00 |
| 533 | Howard, Charles | . | . | . | . | . | . | . | 2 00 |
| 540 | Hemmenway, Louis D. | . | . | . | . | . | . | . | 2 00 |
| 542 | Hitchings, John | . | . | . | . | . | . | . | 2 00 |
| 543 | Hayes, Patrick | . | . | . | . | . | . | . | 2 13 |
| 545 | Hawkins, Thomas | . | . | . | . | . | . | . | 2 00 |
| 546 | Howard, William L. | . | . | . | . | . | . | . | 2 00 |
| 548 | Hegeman, George | . | . | . | . | . | . | . | 2 00 |
| 549 | Higgins, C. W. | . | . | . | . | . | . | . | 2 00 |
| 551 | Harris, Samuel T. | . | . | . | . | . | . | . | 2 00 |
| 552 | Havener, C. H. | . | . | . | . | . | . | . | 2 00 |
| 553 | Hudson, Charles E. | . | . | . | . | . | . | . | 2 00 |
| 554 | Hovey, John C. | . | . | . | . | . | . | . | 2 00 |
| 558 | Healy, William H. | . | . | . | . | . | . | . | 2 00 |
| 559 | Healy, Frank D. | . | . | . | . | . | . | . | 2 00 |
| 560 | Healy, Nathaniel G. | . | . | . | . | . | . | . | 2 00 |
| 568 | Holbrook, George C. | . | . | . | . | . | . | . | 2 00 |
| 569 | Irvine, J. E. | . | . | . | . | . | . | . | 2 00 |
| 575 | Ireland, Thomas S. | . | . | . | . | . | . | . | 2 00 |
| 588 | Jones, C. C., 2d | . | . | . | . | . | . | . | 2 00 |
| 591 | Judkins, Frederick W. | . | . | . | . | . | . | . | 2 00 |
| 595 | Jones, Charles S. | . | . | . | . | . | . | . | 2 00 |
| 598 | Jones, Abel H. | . | . | . | . | . | . | . | 2 00 |
| 600 | Jackman, E. N. | . | . | . | . | . | . | . | 20 80 |
| 613 | Kent, J. F. | . | . | . | . | . | . | . | 2 00 |
| 617 | Kimball, Joshua | . | . | . | . | . | . | . | 2 00 |
| 618 | Keen, John (poll, \$2.00; personal, \$2.60) | . | . | . | . | . | . | . | 4 60 |
| 621 | Killion, James | . | . | . | . | . | . | . | 2 00 |
| 624 | Kelley, Michael F. (poll, \$2.00; personal, \$1.62) | . | . | . | . | . | . | . | 3 62 |
| 626 | Kramer, Henry | . | . | . | . | . | . | . | 2 00 |

Amount carried forward \$378 11

ASSESSORS' REPORT.

139

| No. of tax-bill. | Amount brought forward | \$590 23 |
|---------------------|---|----------|
| 1008 | Sargent, George B. | 2 00 |
| 1071 | Simonds, Walter W. | 2 00 |
| 1098 | Smith, Taylor F. | 2 00 |
| 1109 | Sampson, James S. | 2 00 |
| 1111 | Slason, Frank W. | 2 00 |
| 1112 | Shaw, George D. | 2 00 |
| 1115 | Sullivan, Timothy | 2 00 |
| 1117 | Stillman, George | 2 00 |
| 1118 | Stillman, John J. | 2 00 |
| 1121 | Stevenson, John | 2 00 |
| 1122 | Smith, George A. | 2 00 |
| 1123 | Story, William | 2 45 |
| 1124 | Sargent, William P. | 2 00 |
| 1129 | Tay, Aaron | 2 00 |
| 1134 | Thompson, Charles M. | 2 00 |
| 1155 | Tukey, Greenleaf S. | 2 00 |
| 1156 | Twitchell, Maynard | 2 00 |
| 1160 | Turner, Thomas | 2 00 |
| 1161 | Temple, F. L. | 3 30 |
| 1162 | Towne, Thomas J. | 2 00 |
| 1163 | Thomas, Daniel W. | 2 00 |
| 1164 | Tucker, Eben | 2 00 |
| 1166 | Tinkham, L. A. | 2 00 |
| 1167 | Taylor & Pratt | 1 95 |
| 1169 | Thompson, George | 2 00 |
| 1174 | Upham, H. W. | 2 00 |
| 1184 | Upham, Thomas N. | 2 00 |
| 1193 | Vincent, P. H. | 2 00 |
| 1197 | Van Buskirk, Lawrence | 2 00 |
| 1199 | Vegeahn, Frederick Otto | 2 00 |
| 1200 | Wright, Harry | 2 00 |
| 1201 | Waite, Charles A. | 2 00 |
| 1202 | Woods, Richard | 2 00 |
| 1222 | Wills, Mrs. H. G. (real estate) | 68 25 |
| 1231 | Wallis, F. O. | 2 00 |
| 1240 | Woodward, Samuel | 2 00 |
| 1254 | Whitney, Charles | 2 00 |

| | |
|---|-----------------|
| <i>Amount carried forward</i> | <i>\$732 18</i> |
|---|-----------------|

| No. of tax-bill. | <i>Amount brought forward</i> | . | . | . | \$732 18 |
|---------------------|---------------------------------------|---|---|---|----------|
| 1260 | Wilson, James Henry | . | . | . | 2 00 |
| 1269 | Woodward, Henry | . | . | . | 2 00 |
| 1272 | Woodward, Henry W. | . | . | . | 2 00 |
| 1273 | Wadsworth, Claudius | . | . | . | 2 00 |
| 1285 | Wheaton, George | . | . | . | 2 00 |
| 1288 | Worthley, James | . | . | . | 2 00 |
| 1293 | Walker, George | . | . | . | 2 00 |
| 1302 | Whowell, Joseph R. | . | . | . | 2 00 |
| 1304 | York, William B. | . | . | . | 2 00 |
| 1305 | Young, Edward H. | . | . | . | 2 00 |
| 1466 | Holt, Freeman J. (personal) | . | . | . | 11 70 |
| 1521 | Mack, Orville | . | . | . | 1 30 |
| 1537 | Pratt, heirs of Oliver | . | . | . | 3 90 |
| 1673 | Irvine, G. H. | . | . | . | 2 00 |
| 1679 | Manuel, Leandro | . | . | . | 2 00 |
| | | | | | <hr/> |
| | | | | | \$773 08 |

J. C. CURRIER.

C. T. STEVENS,

Assessors of Melrose.

BY-LAWS

OF THE

TOWN OF MELROSE,

ADOPTED NOVEMBER 20, 1877—REVISED APRIL 4, 1878—AP-
PROVED BY THE SUPERIOR COURT FOR THE COUNTY
OF MIDDLESEX, APRIL 18, 1878, AND DULY
ENTERED UPON THE RECORDS OF
SAID SUPERIOR COURT.

ARTICLE I.

SECTION 1. The annual Town Meeting, for the choice of Town Officers and other purposes, shall be held on the first Monday in March in each year.

SECT. 2. Notice of the annual Town Meeting shall be given by posting an attested copy of the Warrant at the Town Hall, each of the Post-Offices and Depots in the town not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

SECT. 3. At the Annual Meeting, after the choice of Moderator, the polls shall remain open at least three hours, after which a vote may be passed to close them in not less than ten minutes. At any election after the balloting has begun, no vote fixing the time for closing the polls shall be reconsidered, except for the purpose of extending such time.

SECT. 4. When a question is under debate, no motion shall be received, but to adjourn the meeting, to lie on the table, to commit or amend, to refer or to postpone to a day certain, or to postpone indefinitely, which several motions shall have precedence in the order in which they are arranged.

SECT. 5. No final vote shall be reconsidered except upon notice for that purpose made within thirty minutes after such vote has been passed.

SECT. 6. No person shall speak more than twice, nor shall any person speak more than twenty minutes upon any question without first obtaining leave of the meeting, except for the correction of an error, or to make an explanation; and not until others who have not spoken upon the question shall speak, if they desire it.

SECT. 7. All questions submitted for the consideration of the town, involving the expenditure of money, shall be in writing, and all other motions shall be reduced to writing, if required by the presiding officer.

SECT. 8. All motions for the appropriation of money shall be voted upon by the use of the Check List, at the request of one-fourth of the legal voters present.

SECT. 9. The duties of the Moderator not prescribed by the Statutes, or by the foregoing By-Laws, shall be determined by the general rules of parliamentary law, so far as they may be adapted to town meetings.

ARTICLE II.

ON CERTAIN POWERS AND DUTIES OF TOWN OFFICERS NOT PRESCRIBED BY THE STATUTES.

SECT. 1. The Selectmen shall have full authority as agents of the town, to institute and prosecute suits in the name of the town, and to appear and defend suits brought against it, unless it is otherwise specially ordered by a vote of the town.

SECT. 2. The Selectmen may authorize the Treasurer to borrow money temporarily, in anticipation of the collection of taxes, and to give promissory-notes therefor in behalf of the town, the same to be signed by the Treasurer and countersigned by a majority of the Selectmen, and all promissory-notes of the town shall be executed in like manner.

SECT. 3. No money shall be paid from the treasury except the State and county taxes, and notes and interest thereon, except upon the presentation of a proper voucher which shall require the approval of a majority of the Selectmen; after such approval, it shall be the duty of the Town Clerk to draw an order upon the

Treasurer for the required amount, retaining the voucher in his possession. And the said orders so drawn upon the Treasurer, shall, upon presentation to the Auditors, be considered his sufficient vouchers for the amounts which they severally represent.

SECT. 4. The town Treasurer shall issue no note in the name of the town, unless it is approved by a majority of the Selectmen.

SECT. 5. The Selectmen shall cause to be printed in one volume, and distributed ten days, at least, before the annual Town Meeting, the reports of the officers of the various departments of the town, and when practicable, the reports of all committees, appointed by the town, shall be included therein.

SECT. 6. The Selectmen shall keep a record of all bills disapproved by them, and no such bill shall be considered by any subsequent board, except by a special vote of the town.

SECT. 7. There shall be chosen, at the Annual Meeting, three Auditors of Accounts, who shall audit the accounts of the Treasurer and Collector; and for this purpose they may have access to and examine all accounts of the different departments of the town.

ARTICLE III.

FINANCIAL AFFAIRS.

SECT. 1. All taxes shall be assessed and committed to the Collector, on or before the fifteenth day of August in each year, and tax-bills, in the form as adopted by the town, July 22, 1875, shall be delivered by the Collector within twenty days after such commitment.

SECT. 2. All taxes shall be due whenever a bill of the same shall have been presented to any person taxed, or his agent, or the tenant of any non-resident proprietor of any property taxable in the town, or left at his usual place of abode, and interest, at the rate of eight per cent per annum, shall be charged from Oct. 1, on all taxes not paid on or before that date; provided that nothing in this section shall prevent the Assessors, in case of doubtful credit, from exercising the powers given them in the fourth section of the twelfth chapter of the General Statutes.

SECT. 3. In all cases where tax-bills for poll, or for poll and personal tax only, are not paid on or before the fifteenth day of October in each year, it shall be the duty of the Collector to forthwith issue

a summons to each delinquent, and if such delinquent do not pay the amount with twenty cents added for the summons, within ten days from said summons, the Collector shall issue a warrant to an officer, who shall forthwith proceed to collect the amount due in the manner provided by law.

SECT. 4. The delivery of a tax-bill as directed in the preceding section shall in all cases be deemed a demand for payment of the tax.

SECT. 5. Every Collector shall pay over to the town Treasurer all taxes by him collected, except State and county taxes, at least once a month until the collection is completed.

SECT. 6. Every Collector shall complete and make up an account of the collection of all the taxes committed to him, and present the same to the Selectmen on or before the first day of January in each year.

SECT. 7. The financial year shall begin with the first day of January in each year, and end with the last day of December following.

ARTICLE IV.

STREETS AND HIGHWAYS.

SECT. 1. No building shall be removed over a public street without a written permit from the Selectmen; and no permit shall be given by the Selectmen when such removal will cause the destruction or injury of any tree or shrub standing on the street, or owned by any person and projecting over the street, unless the written consent of the person on or in front of whose premises such tree or shrub may stand shall first be obtained.

If any building shall be removed over or through any public street or square, the owner of such building and the person or persons moving the same shall be jointly and severally liable to the town for all damages, costs and expenses for which the town may be liable, or which it may be compelled to pay in consequence of such removal.

SECT. 2. No person shall build sidewalks on any of the streets or ways of the town without a written permit from the Selectmen, which permit shall specify the width, material, and mode of construction of the same.

Any person violating this section shall, upon notice from the Selectmen, make the necessary alterations, and failing so to do, the Selectmen shall cause the requisite changes to be made and shall assess the cost upon the abutting estate.

SECT. 3. Whenever the Selectmen shall grant a permit and a sidewalk shall have been built in accordance therewith, they may allow toward the expense of building the same a sum not to exceed one half the cost thereof, provided, that in case of any violation of the permit the town shall pay no part of the cost. Nothing in this article shall prevent persons from building sidewalks at their own expense under the approval or permit of the Selectmen.

SECT. 4. No person except the Highway Surveyors or the water Commissioners, in the lawful performance of their duties, or those acting under their orders, shall obstruct any sidewalk or street, or any part thereof, or break or dig the ground of the same, without first obtaining a written license from the Selectmen; and all persons so obstructing any sidewalk or street or any part thereof shall put and keep up a suitable railing around the parts so obstructed, and shall place a substantial and convenient walk around such obstructions, and keep lighted lanterns fixed at proper places through the night, as the Highway Surveyors or Selectmen shall direct.

SECT. 5. No person shall place or cause to be placed in any public or private way of the town the contents of any sink, cess-pool, or privy, nor place any rubbish or garbage in the same, except for the purpose of immediate removal therefrom.

SECT. 6. No person shall leave any team or vehicle in any of the streets or ways of this town for the space of more than sixty minutes.

SECT. 7. No person shall suffer any gate to open outward over any sidewalk or highway of this town.

SECT. 8. No person shall pasture any cattle, goats, or other animals, either with or without a keeper, upon any street or way in the town; provided that nothing herein shall affect the right of a person to the use of the land within the limits of a street or way adjoining his own premises.

SECT. 9. No person shall ride or drive any horse or other animal, either alone or attached to a vehicle, at a rate exceeding seven miles per hour, along any public way; nor permit any dangerous animal to go at large.

SECT. 10. No street or public way shall hereafter be opened in the town of a less width than forty feet.

ARTICLE V.

TRUANCY.

SECT. 1. Every child between the ages of seven and fifteen years, found during school hours in the streets or public places of the town of Melrose, a truant from school, shall be arrested by any truant officer of the town and taken to the school to which the child belongs and delivered to the teacher thereof.

SECT. 2. The teachers of the schools shall report every scholar guilty of habitual truancy to the school committee who may prevent prosecution under the law by satisfactory pledges from the parent or guardian for the reformation and future good conduct of the child. If such pledges are not given or kept, the committee may notify the truant officer who shall make complaint against such child before the proper legal tribunal. All minors who are habitual truants, and children between the ages of seven and fifteen years who may be found in the streets or public places of this town, having no lawful occupation or business, not attending school and growing up in ignorance, shall be committed to the House for the Reception, Instruction, Employment and Reformation of Juvenile offenders in the City of Lowell, in the County of Middlesex, for such time not exceeding two years as the Justice of Court having jurisdiction may determine. Any child so committed may upon proof of amendment or for other sufficient cause shown, upon a hearing of the case, be discharged by such Justice or Court.

ARTICLE VI.

POLICE REGULATIONS.

SECT. 1. It shall be the duty of the Selectmen to appoint annually three or more Police Officers, who shall hold office one year, or until others are appointed, unless sooner removed by the Selectmen, and who shall receive such pay as the Selectmen shall order.

It shall be the duty of these officers to notice all offences against the By-Laws of this town, and the statutes of the commonwealth, and to cause prosecution to be commenced forthwith against all offenders, under the direction of the Selectmen.

SECT. 2. It shall be the duty of the Chief of Police to report in writing, annually, to the board of Selectmen.

SECT. 3. No person shall throw stones or other missiles, nor unnecessarily make any tumultuous or alarming noise in the street, to the annoyance of passengers, nor by noise otherwise disturb the quiet of any person or persons, by day or by night.

SECT. 4. One or more persons standing on any sidewalk or street in such a manner as to obstruct the same shall move on immediately when ordered by any of the constables or police officers of the town.

SECT. 5. No person shall behave in any indecent, or disorderly manner, nor use profane, indecent, or insulting language in any public place or building, or on any sidewalk or street in the town, to the annoyance or disturbance of any other person there being or passing in a peaceable manner.

SECT. 6. No person shall kindle any bonfire or other fire on the highways or lands belonging to this town, or on any other lands, streets or ways not his own, without permission from the Selectmen or from the owners of said streets, ways, or lands.

SECT. 7. No person shall at any time fire India crackers, torpedoes, or other explosive articles, or discharge any fire-arms or cannon, in or across any street or way, near any vehicle passing thereon, or any dwelling-house, except in performance of some legal duty, nor carelessly use guns or other firearms, at any time, or in any place within the limits of the town.

SECT. 8. No person shall post, affix, nor in any way attach any poster, hand-bill, notice, advertisement or placard to or upon any post, wall, fence, tree, building, or structure not his own, nor mar, deface, or disfigure the same without the permission of the owner.

SECT. 9. No person shall wilfully or maliciously deface or tear down any bill, placard, or notice posted for a lawful purpose, except the same be affixed to premises owned by him or under his control.

SECT. 10. No person shall bathe in any waters of the town between the hours of sunrise and sunset in a state of nudity, in places which are exposed to public view, or in the immediate sight of the occupants of any dwelling-house.

ARTICLE VII.

SECT. 1. Any person guilty of violation of any of these By-Laws, wherein no penalty has been provided, shall pay a fine not exceeding twenty dollars for each offence and all fines recovered shall be paid into the town treasury.

ARTICLE VIII.

SECT. 1. These By-Laws shall go into effect from and after their passage and approval by the Superior Court, or by a Justice thereof, and with such approval entered and recorded in the office of the Clerk of the Courts in the county of Middlesex.

REPORT OF THE BOARD

OF

WATER COMMISSIONERS

FOR

1869-70-71.

MELROSE.

1871.

MEMBERS OF THE BOARD.

ELECTED SEPTEMBER 24, 1869.

WINGATE P. SARGENT.
JEREMIAH MARTIN.
DEXTER BRYANT.
ELBRIDGE GREENE.
JOEL SNOW.

President :

WINGATE P. SARGENT.

Secretary :

DEXTER BRYANT.

Superintendent :

JEREMIAH MARTIN.

[By invitation of the Water Commissioners, Mr. E. H. Goss has acted as Clerk of the Board.]

REPORT.

Fellow-Citizens :

The Board of Water Commissioners submit the following report:

SPOT POND.

For a few years past, as our citizens have realized the necessity for a supply of fresh and pure water for domestic purposes, wistful eyes have been turned toward the beautiful sheet of water known as "Spot Pond,"—so named two hundred and thirty-nine years ago, by Gov. John Winthrop,¹—as being one which possessed the requisite quality and quantity to meet such an emergency. Here it was, a natural reser-

¹ By the following extract from Gov. Winthrop's Journal, we learn when, how and why this pond was so named:—

Feb. 7, 1632. The governour, Mr. Nowell, Mr. Eliot, and others, went over Mistick river at Medford, and going N. and by E. among the rocks about two or three miles, they came to a very great pond, having in the midst an island of about one acre, and very thick with trees of pine and beech; and the pond had divers small rocks, standing up here and there in it, which they therefore called Spot Pond. They went all about it upon the ice. From thence (towards the N. W. about half a mile), they came to the top of a very high rock, beneath which, (towards the N.) lies a goodly plain, part open land, and part woody, from whence there is a fair prospect, but it being then close and rainy, they could see but a small distance. This place they called Cheese Rock, because, when they went to eat somewhat, they had only cheese, (the governour's man forgetting, for haste, to put up some bread)

voir, a hundred feet higher than our dwellings, and at our doors, only awaiting action before making welcome entrance.

As the subject of the quantity and quality of the water introduced is of vital importance, your Commissioners will here state a few facts and statistics concerning the Spot Pond water. While the matter of introducing fresh water for the city of Boston was being agitated, as it was for many years previous to the introduction of the Cochituate water in 1848, many reports were made by engineers and chemists concerning the different sources examined, regarding the quantity and quality. Spot Pond, with one exception, always ranked the highest for purity, and was very often recommended as the best source of supply. The following figures give some of the results of these different examinations.

The average daily supply was given, —

| | |
|---|--------------------|
| In 1825, by Prof. Daniel Treadwell, as | 1,600,000 gallons. |
| In 1834, by Col. Loammi Baldwin, as | 1,600,000 “ |
| In 1836, by Mr. Robert H. Eddy, | |
| as from 2,500,000 to 3,000,000 | “ |
| In 1837, by Messrs. Daniel Treadwell and | |
| Nathan Hale, as from 1,600,000 to 2,600,000 | “ |
| In 1838, by Messrs. Daniel Treadwell and | |
| Nathan Hale, as | 1,700,000 “ |
| In 1838, by Mr. James F. Baldwin, as | 1,500,000 “ |
| In 1845, by Messrs. John B. Jervis and | |
| Walter R. Johnson, as | 1,500,000 “ |

Calling the number of inhabitants of the three towns of Malden, Medford and Melrose 17,000, and

estimating the quantity of water to be used by each person at 40 gallons per day, and the total consumption of water would be 680,000 gallons, or considerably less than one half of the lowest of the above estimated daily supplies.

Regarding the quality, Mr. Eddy, in 1836, reported as follows: "The purity of the waters of Spot and Mystic Ponds will be better understood by comparison with those introduced into some other cities. 41,666 grains of Spot Pond water yield one grain of solid matter. 27,397 grains of Mystic Pond water yield one grain of solid matter. 16,826 grains of water of Croton River, the source of supply for the city of New York, yield one grain of solid matter. 6,666 grains of Verulam and Wandle water, the rivers proposed by the late Mr. Telford for a further supply of the city of London, produced one grain of solid matter. It will be perceived by the above that in the same quantity of Spot Pond and Croton River waters, the former contains but *one-third* the foreign matter of the latter. * * * Spot Pond is to London water as 7 to 1, and Mystic Pond to London as 9 to 2. Should the city resolve to bring water from these sources, we might boast with some truth of being supplied with *pure water*."

In 1837, the analysis by Dr. A. A. Hayes gave Spot Pond water as the most transparent of all sources then examined. In 1845, the counsel for the remonstrants in the hearing against the "Long Pond Act" said: "The water from this source (Spot Pond) is fully shown by the concurrent testimony of all the

commissioners, as well as by the results of chemical analysis, to be superior to every other, on account of its transparency, freedom from color, and the absence to an unusual degree of foreign matter."

The same year an analysis by Prof. Silliman placed Long Pond water first and Spot Pond second.

In 1838, Mayor Samuel A. Eliot gave the following favorable testimony in behalf of Spot Pond over all other sources: "A pond which has been known ever since the continent was known, and which has continued through all the causes of depression which have operated upon it for the last two hundred years, is not very likely to fail from those which are to operate upon it for the next two centuries. Especially is a pond which, like Spot Pond, at such an elevation as to preclude the necessity of pumping, and is of so pure a quality as to be almost unequalled in that respect, preferable to any source of supply which is neither pure nor elevated."

The high water mark of Spot Pond is one hundred and forty-three feet above marsh level, and its area when full is two hundred and ninety-six acres; at five feet below high water one hundred and ninety-six acres. The area of the country draining into it, including the pond, is 1,100 acres. There are no manufactories, mills or other buildings upon its borders to contribute foreign matter and thus impair its quality.

TOWN MEETING, SEPT. 24, 1869.

The first action taken to introduce this water was in 1867, when, on the 4th of May, in that year,

Gov. Bullock approved an act which had passed the Legislature incorporating the "Spot Pond Water Company for the purpose of supplying the inhabitants of said Melrose, Malden and Medford with pure water." For this act see Appendix A. More than two years passed away before anything was done by either Melrose, Malden or Medford toward purchasing the franchise of this Company, according to one of the provisions of the act, when almost simultaneous action was taken by the three towns; the Town Meeting for Melrose being duly warned for Friday evening, Sept. 24, 1869, at Lyceum Hall, at which time the subject of supplying our town with water was to be discussed and acted upon. At this meeting the following vote was passed:—

Voted, That the town of Melrose, — the towns of Medford and Malden, or either of them, concurring, — purchase the franchise of the Spot Pond Water Company and all its corporate property, according to the provisions of an act to incorporate the Spot Pond Water Company, approved May 4, 1867. And that a commission of five be appointed by this town to act in concurrence with commissions appointed by both or either of the other said towns.

And that said commissioners be authorized, in concurrence with the commissioners of said other towns, or either of them, to purchase the franchise of the Spot Pond Water Company and contract for the building of water works, at any time within one year from this date, at a cost to this town for its proportion of the expense of said franchise, works at the Pond, main pipe to Warren Lynde's, and street pipes for this town, not exceeding the sum of sixty thousand dollars (\$60,000). Said contracts to be submitted to the town for ratification before being binding.

The following gentlemen were then elected to act as Water Commissioners in accordance with the

above vote: Wingate P. Sargent, Jeremiah Martin, Dexter Bryant, Elbridge Greene and Joel Snow.

TOWN MEETING, OCT. 7, 1869.

On the 7th of October a town meeting was called at Lyceum Hall to hear and act upon the report of the Water Commissioners, which was as follows: —

“Your commissioners have devoted much time, and given great consideration to the subject of the introduction of water into this town. They have also been present at several meetings of the commissioners of the three towns, Malden, Medford and Melrose. They find that both of the other towns intend to take the franchise, and introduce the water. The town of Malden has already contracted with Mr. George H. Norman, — subject to the approval of both or either of the other towns, for the construction of works at the Pond, and main pipe to Warren Lynde’s; and have submitted to us a copy of that contract for consideration, which is as follows: —

For work at pond, gate chamber and house, pen stock and bridge, with sixteen inch wrought-iron and cement pipe, except across meadow, where cast-iron pipe is to be used, to Masonic Hall, 6,364 feet, including rock and other excavation, and two sixteen-

| | |
|---|----------------|
| inch gates | \$33,000 |
| From Masonic Hall to the house of Warren Lynde, the point where the Melrose works end, nine hundred feet twelve-inch pipe | 2,070 |
| Rock excavation | 1,500 |
| Franchise | 400 |
| Total, | <hr/> \$36,970 |

After due deliberation among ourselves, and consultation with the Commissioners of Malden and Medford, we have concluded that it will be for the best interests of Melrose to pay one-third of the cost of these main works which is . . . \$12,323

For the building of the rest of the works in our streets, we have received the following proposal from Mr. Norman: —

WINGATE P. SARGENT, Esq., *Chairman Water Commissioners of the Town of Melrose:*

Sir: — I will make all excavations, including rock and ledge, and will furnish and lay in the best manner, and of the best materials, in such streets of the town of Melrose as you designate, twelve thousand (12,000) feet wrought-iron and cement pipe, of six-inch internal diameter; also twenty thousand (20,000) feet same, of four-inch internal diameter; also, twenty (20) fire hydrants, with three nozzles each; also, thirty (30) gates, with all necessary branches for any future extension of the pipes; and twenty-five (25) extra branches for fire-hydrants, together with all necessary plugs, caps, blow-offs, and air-cocks; and in fact complete the work in accordance with your specifications, and keep the entire work in order, for the term of four years, for the sum of forty-seven thousand five-hundred (\$47,500) dollars.

The above proposal includes the total expenses of excavations of every kind and nature, including ledge and stone, and for the expenses of crossing all brooks and other obstructions, and in fact all expenses, of whatever kind, for the construction and completion of the work in the best manner, in all respects.

Very respectfully,

GEO. H. NORMAN.

Boston, Oct. 5, 1869.

Adding this amount (\$47,500) to our proportion of the cost of main works and we have a total of

\$59,823. For which sum we obtain inclusive of the main or 16-inch pipe, in Wyoming avenue and Main street, a little more than seven miles of pipe laid in our own streets ready for use by water-takers. We have accepted the proposition of Mr. Norman subject to the ratification of the town.

We find by the level that with two or three exceptions the water can be carried into every house in town.

Your commissioners further submit that they find that all the conditions for the introduction of the water are more favorable than they anticipated, and that the works can be introduced, completed and kept in order for four years, with seven miles of pipes in the streets of Melrose, ready for the use of water-takers, for the sum adopted at your last meeting, viz., sixty thousand (\$60,000) dollars. Under these circumstances, your Commissioners earnestly recommend the passage of the following:—

Voted, That the Water Commissioners be authorized to make and complete the necessary contracts for the construction of the Water Works according to the terms of their report herewith submitted, at a cost to the town of Melrose not exceeding the sum of sixty thousand (\$60,000) dollars. And that the Town Treasurer be and is hereby authorized to issue scrip, payable twenty years from the date thereof, with interest at the rate of six per centum per annum, to pay for the same.

Respectfully submitted,

WINGATE P. SARGENT,
JEREMIAH MARTIN,
DEXTER BRYANT,
ELBRIDGE GREENE,
JOEL SNOW.

MELROSE, Oct 7, 1869.

This report was accepted by an almost unanimous vote; and in accordance with this action of the town, the Water Commissioners, in conjunction with the Water Commissioners of the towns of Malden and Medford, immediately purchased the franchise of the "Spot Pond Water Company."

It was thought advisable that additional legislation should be had ratifying the action of the towns of Malden, Medford and Melrose in relation to the purchasing of the franchise of the "Spot Pond Water Company," and conferring upon the three towns, jointly and respectively, all the power requisite for the use and enjoyment of that franchise, and an "act in addition to an act to incorporate the Spot Pond Water Company" was passed by the Legislature and approved by Gov. Claflin, April 2, 1870. For this act see Appendix B.

CONTRACTS.

On the 7th of December, 1869, a contract was concluded between Mr. George H. Norman of Newport, R. I., and the towns of Malden and Melrose, jointly, by their respective Boards of Water Commissioners, — the town of Medford having decided to construct an independent main from the south side of the Pond, — for the construction of the main water-works, at the Pond and through Wyoming Avenue and Main street to the house of Warren Lynde, according to the report submitted to the town, Oct. 7th, involving a cost to the town of Melrose, of twelve thousand three hundred (\$12,300) dollars. The work as fin-

ished differed but little from the foregoing estimate. The 16-inch main pipe commences at the Gate House at the Pond, thence runs through lands of Charles Copeland, and the heirs of William Foster, about 800 feet to the Ravine road in Stoneham; thence through Ravine road to Wyoming avenue; thence through said avenue to the Masonic Hall, being 7,170 feet in length. And the 12 inch pipe from Masonic Hall through Main street to Warren Lynde's is $893\frac{1}{2}$ feet. By an agreement between the Commissioners of Malden and the Commissioners of Melrose, the main pipes from the Pond to the house of Warren Lynde, and the Gates and Gate-house, are owned in common by the towns of Malden and Melrose.

On the 10th of May, 1870, a contract was concluded and signed, between Mr. Norman and the town of Melrose, by its Water Commissioners, for the laying of twelve thousand (12,000) feet of six-inch, and twenty thousand (20,000) feet of four-inch iron and cement distribution pipes, through such streets as the Commissioners should name, according to his proposal of Oct. 5, 1869; this contract involving a cost to the town of Melrose of forty-seven thousand five hundred (\$47,500) dollars. The work was to be completed on or before the first day of September, 1870, and to be guaranteed for four years, during which time the pipes were to be kept in order at the expense of the contractor.

While the work under these contracts was progressing, numerous applications were made to the

Commissioners for the introduction of pipes into streets not contemplated under the existing contracts, and your Commissioners felt it their duty to submit the matter to the town for its action. A meeting was called and held at Lyceum Hall, May 31, 1870, at which the following vote was passed: —

That the Water Commissioners be authorized to increase the number of Fire Hydrants, and to lay such additional street pipes as in their judgment the best interests of the Town require and to pay for the same in the Water Fund Bonds.

At this meeting the following vote was also passed:

That the Water Commissioners be authorized to lay service pipe to the premises of water-takers, and to pay for the same in Bonds, and to charge the several water-takers with a reasonable part of the expenses, to be fixed by general rules established by the Commissioners.

Upon investigation your Commissioners found that it was necessary that over five (5) more miles of distribution pipes should be laid, and that thirty-five (35) additional fire hydrants and eleven (11) additional gates would be required to meet the full demands of the town; and they called upon the contractor, Mr. Norman, to supply these additional pipes, hydrants and gates, according to a provision in the original contract, at a cost of about thirty thousand (\$30,000) dollars.

Under the energetic supervision of the contractor, the work under these various contracts was pushed rapidly and satisfactorily forward; and the gate-house at the Pond, and the main pipes through the

streets of Melrose and Malden were so far completed, that the gate was hoisted and water let into the pipes on Thursday, Aug. 25th, 1870, a week only after the very destructive fire which burned over and destroyed so large a portion of the business part of our town.

MAIN PIPES, HYDRANTS AND GATES.

The following table shows the number of feet of the different sizes of main pipes, and the streets through which they are laid, together with the number and sizes of the fire hydrants and gates, and their location, furnished under the contract dated May 10, 1870; this is exclusive of the main pipe through Wyoming Avenue and Main street which is covered by the contract dated Dec. 7, 1869: —

STATEMENT OF DISTRIBUTION PIPES.

| STREETS. | FEET OF PIPE. | | | HYDRANTS. | GATES. | |
|-----------------------------|--------------------|--------------------|-------------------|-----------|---------|---------|
| | 6-inch. | 4-inch. | 2-inch. | | 6-inch. | 4-inch. |
| Main | 3784 | .. | .. | 5 | 2 | .. |
| Green | 2700 | .. | .. | 3 | 1 | .. |
| Franklin | 2813 $\frac{1}{2}$ | .. | .. | 4 | 1 | .. |
| Vinton | 2658 $\frac{1}{2}$ | 426 | .. | 4 | 1 | .1 |
| Trenton | 1233 | 831 $\frac{1}{2}$ | .. | 1 | 2 | 1 |
| Melrose | .. | 1960 $\frac{1}{2}$ | .. | 1 | .. | .. |
| Ashland | .. | 1014 $\frac{1}{2}$ | .. | 1 | .. | .. |
| Tremont | .. | 844 | .. | 1 | .. | 1 |
| Greenwood | .. | .. | 324 | .. | .. | .. |
| Perkins | .. | 236 | .. | .. | .. | 1 |
| So. Howard | .. | 484 | .. | .. | .. | 1 |
| Florence | .. | 1335 $\frac{1}{2}$ | .. | .. | .. | 2 |
| Maple and Poplar | .. | 2265 $\frac{1}{2}$ | .. | 2 | .. | 1 |
| Emerson | .. | 3971 | .. | 3 | .. | 4 |
| Youle | .. | 998 $\frac{1}{2}$ | .. | 1 | .. | 1 |
| Otis | .. | .. | 780 | .. | .. | .. |
| Oakland | .. | 1161 | .. | 1 | .. | 1 |
| Linden Place | .. | .. | 286 | .. | .. | .. |
| Cedar Park | .. | 898 $\frac{1}{2}$ | .. | 2 | .. | .. |
| Laurel | .. | .. | 457 | .. | .. | .. |
| Cottage | .. | 1142 | 193 | 2 | .. | 2 |
| Hurd | .. | 768 | .. | .. | .. | 1 |
| Berwick | .. | 1226 $\frac{1}{2}$ | .. | 1 | .. | 1 |
| Herbert | .. | .. | 158 $\frac{1}{2}$ | .. | .. | .. |
| West Grove | .. | 199 $\frac{1}{2}$ | .. | .. | .. | .. |
| Waverley Place | .. | 690 $\frac{1}{2}$ | .. | 1 | .. | 1 |
| Foster | .. | 1470 $\frac{1}{2}$ | .. | 1 | .. | 2 |
| Myrtle and Lake av. | .. | 2385 | .. | 2 | .. | 3 |
| Winthrop | .. | 695 $\frac{1}{2}$ | .. | .. | .. | 1 |
| Vine | .. | 691 | .. | 1 | .. | .. |
| Essex | .. | 1437 | .. | 2 | .. | 1 |
| Willow | .. | .. | 663 | .. | .. | .. |
| Short and Main | .. | .. | 470 $\frac{1}{2}$ | .. | .. | .. |
| Reading Hill | .. | .. | 237 | .. | .. | .. |
| Porter | .. | 2514 $\frac{1}{2}$ | .. | 2 | .. | 1 |
| School | .. | .. | 495 | .. | .. | .. |
| Upham | .. | 3223 | .. | 2 | .. | 2 |
| Stevens Place | .. | .. | 216 | .. | .. | .. |
| Lebanon | .. | 2750 | .. | 2 | .. | 1 |
| Grove | .. | 1366 | .. | 1 | .. | .. |
| Walnut | .. | 187 $\frac{1}{2}$ | .. | .. | .. | 1 |
| Lynde and Linwood | .. | 2960 | .. | 3 | .. | 1 |
| Summer | .. | 701 | .. | 2 | .. | .. |
| East Wyoming av. | .. | 1076 | .. | .. | .. | .. |
| West " " | .. | .. | .. | 3 | .. | .. |
| Chestnut | .. | 572 | .. | .. | .. | .. |
| Mt. Vernon | .. | 394 | .. | 1 | .. | .. |
| Wastes 27 x 24 | .. | 51 | .. | .. | .. | 2 |
| 80 Plugs | .. | 80 | .. | .. | .. | .. |
| Totals | 13189 | 43007 | 4280 | 55 | 7 | 24 |

Total length of pipes in Melrose nearly thirteen miles.

In addition to the above, eight hundred and fifty feet of four-inch iron and cement pipe, and nine feet of four-inch iron pipe have been laid by Mr. Norman, from the Ravine road, with two four-inch fire hydrants, and one four-inch gate, for the Haywardville Rubber Factory, in Stoneham, one-half of the expense of which is to be paid by the town of Melrose, and one-half by the town of Malden; the water rates to be equally divided according to an agreement made between the Water Commissioners of the two towns.

WATER RATES.

The following list of Water Rates was agreed upon by the Board, which they recommend to the town for adoption.

DWELLING HOUSES.

| | |
|---|--------|
| Occupied by one family, for the first faucet, | \$6 00 |
| For each additional faucet to be used for the same family, | 2 00 |
| When a house is occupied by more than one family and less than four, one faucet only being used by all, for each family, | 5 00 |
| When a house is occupied by four or more families and but one faucet is used for all, for each family, . . . | 4 00 |
| Where a house is occupied by more than one family, the highest rates | |

will be charged for each family having water carried into their part of the house.

| | |
|---|--------|
| For the first water-closet, | \$5 00 |
| For each additional water-closet, | 3 00 |
| For hopper water-closet, | 8 00 |
| For first bath tub, | 5 00 |
| For each additional bath tub, | 3 00 |
| Provided that no private house shall pay more than \$25 per year. | |

BOARDING HOUSES.

| | |
|--|-------|
| For the first faucet, | 10 00 |
| For each additional faucet, | 2 00 |
| For water closet or bath-tub when used for boarders, | 10 00 |
| Other charges as above. | |

Where two faucets are used, one for hot and one for cold water, both emptying into one vessel, but one charge will be made for both.

STORES.

| | |
|---|-------------|
| Occupied as office, shop, or similar purpose, | 6 to 20 00. |
| For each additional faucet, | 2 50 |
| For water closet or urinal, | 6 00 |

STABLES.

| | |
|--------------------------------------|------|
| For first horse, | 5 00 |
| For each additional horse, | 3 00 |
| For first cow, | 2 00 |

For each additional cow, \$1 00

FOR LIVERY, CLUB AND BOARDING STABLES.

For each horse, if more than four, . . . 3.00

The above includes water for washing carriages without hose.

Where hose is used, \$5.00 additional.

TRUCK AND CART STABLES.

For each horse, if more than four, . . . 2.00

The above includes water for washing carriages.

HOSE.

For sprinkling streets, washing windows, and similar uses, \$3.00

When several desire to use the same hydrant for watering street, or watering gardens, see Superintendent.

HOTELS.

For each bed for boarders and lodgers, . 3.00

BATHS.

For public baths, and for each bath in any hotel, 10.00

For water closet in public bath houses, . 10.00

STEAM ENGINES.

For each stationary steam engine, working not over twelve hours a day, for each horse power, 6.00

BUILDING PURPOSES.

For every cask of lime or cement used,05

ORNAMENTAL FOUNTAINS.

Ordinarily used three hours a day, for a period of not more than four months a year.

| | |
|--|------|
| For a jet of one sixteenth of an inch, . . . | 3.00 |
| “ “ one eighth “ “ . . . | 5.00 |
| “ “ one quarter “ “ . . . | 8.00 |

To be cut off at the discretion of the Superintendent.

MANUFACTORIES,

and for all purposes not enumerated in the foregoing rates, special contract to be made with the Water Board.

This schedule of prices was printed in a circular and distributed among the citizens, with this additional notice: —

All parties wishing Spot Pond water introduced into their buildings, will be required to sign an application for the same; a book for that purpose may be found at the Town Clerk's office.

The service pipe will be iron, lined with cement.

The Water Board have made a contract for laying the pipe from the street line through cellar wall, for fifty cents a foot all complete.

Parties wishing any other kind of pipe laid can have it at cost under direction of the Water Board.

At the above rates the receipts from the water-takers at the present time, would amount to thirty-five hundred (\$3,500) dollars, for the current year. Your Commissioners would also recommend that the

Town appropriate one thousand (\$1,000) dollars for the use of water for town purposes, hydrants, schools, etc.

WATER TAKERS.

In accordance with the above circular and notice an order book containing blanks, was opened for the signatures of water-takers; and two hundred and ninety-five (295) signatures of application were made; and as some of these signatures covered two or more families, the number of water-takers at the present date is three hundred and thirty-three (333).

SERVICE PIPES.

On the 15th of August an additional contract was made by the Commissioners with Mr. Norman, for the laying of iron and cement service pipes for water-takers, at a cost of seventy cents (70) per foot, from main pipe to street line, with stop-cock at main pipe, and shut-off at street line; and fifty (50) cents per foot from street line to inside cellar wall, including all the digging and filling of trenches. And it was decided by the Commissioners that the Town should pay the expense of these service pipes from the main pipe to the street line, including stop-cock and shut-off, and that water-takers pay from street line to inside of cellar-wall. Under this contract 4,423 feet ten inches of one inch cement lined iron pipe at 70 cents per foot, and 7,638 feet, eight inches of the same at fifty cents per foot, and 1,805 feet four inches of different kinds of

pipe, — one and one-fourth inch cement-lined iron and lead, — at prices ranging from thirty-five to eighty cents per foot have been laid; the whole amounting to the sum of \$9,494 19, about one-half of which amount is at the cost of the town, and the other half at the cost of water-takers. These individual bills have been made out, presented, partially collected, and the amount paid over to the Town Treasurer.

KINDS OF PIPE.

The importance of maintaining the purity of the Spot Pond water in its introduction into our dwellings, early attracted the attention of your Commissioners and led them to make careful and extensive inquiries regarding the different kinds of service pipes in use, and to select that best suited for the purpose. Galvanized iron pipe was thoroughly discussed and rejected as being entirely unfit for domestic uses; water passing through it in some cases and under circumstances which might occur, causing fatality; and iron pipe lined with hydraulic cement was finally adopted as the most suitable for service pipes. And the numerous cases of zinc poisoning which have since come to our knowledge, have confirmed your Commissioners in their belief that this is the best kind of pipe for this purpose; and they are pleased to say that a large majority of the water-takers have had the cemented pipe carried into their cellars, and in some cases to their sinks. But they regret that some have piped their houses from the cellar with galvanized iron pipe. A thorough analysis was

recently made, by competent chemists for the purpose of ascertaining the action of Spot Pond water upon galvanized iron, and lead pipe, which resulted in showing that water of any kind dissolves zinc, and makes the water drawn through all such pipe entirely unfit for domestic purposes; and that the action on lead pipe was entirely different; a decided chemical reaction takes place within the first forty-eight hours which precipitates an insoluble carbonate of lime upon the inside and this protects the pipe from being farther acted upon by the water and is consequently comparatively safe for conducting the water into and over our dwellings. The Commissioners believe they can in no way better serve their fellow townsmen than by expressing their unanimous confidence in this analysis and appending the same as a part of their report.

BOSTON, JAN 14, 1871.

WINGATE P. SARGENT, Esq., *Chairman Spot Pond Water Board, Melrose:*

The specimen of water taken from Spot Pond, in Melrose, Mass., has been received, and we have conducted a series of experiments, with the view of ascertaining its action upon zinc-covered iron pipes (galvanized proper) and upon pipes constructed of lead.

We find its action upon galvanized iron pipes to be so energetic and immediate, that upon allowing a current of the water to flow slowly through a section of the pipe, the protoxide of zinc was formed in consid-

erable quantities, and was detected in the water which passed through. A section of the pipe was filled with the water and allowed to remain one hour. Upon examining the water, a still larger amount of the protoxide of zinc, and also a small quantity of the carbonate of the protoxide was found to be held in it.

The water allowed to remain twenty-four hours in a section of the pipe, gave a mixture of protoxide and carbonate of zinc amounting in quantity to six grains to the gallon. Experiments made upon sections of the pipe, changing the water every twelve hours with the view of ascertaining if the action upon it was continuous, showed that the zinc salts were constantly present in the water, and that the action was unintermitting. The water of Spot Pond acts directly upon the zinc covering, forming a protoxide of the metal, and liberating hydrogen from water decomposition. A part of the protoxide is changed into carbonate of protoxide, and a minute portion into other salts from the action of organic acids held in the water.

The solution of the protoxide of zinc in the water is facilitated by the presence of alkaline and alkaline earths, and hence there is increased danger from attaching galvanized pipes to mains constructed of hydraulic cement, as there is communicated to the water an alkaline quality resulting from contact with the cement.

It is proved by our investigations that the use of galvanized iron service pipes in conducting Spot Pond water, is highly dangerous to health, and should under no circumstances be permitted.

The action of the water upon leaden pipes corresponds with that taken from Cochituate Lake, and from Round Pond in Haverhill, Mass.

Leaden pipe immersed in the water undergoes slow oxydation, and the water affords a decided lead reaction when tested during the first forty-eight hours. The reaction is afforded in water changed as often as once in two hours. By the change of the partially soluble oxide into insoluble carbonates a coating is formed upon the pipe, which arrests further decomposition, and the water in contact remains uncontaminated. It is apparent that of the two varieties of service pipes, those constructed of lead are far less dangerous, as, under ordinary conditions, the action of the water is protective in the way described.

(Signed) JAMES R. NICHOLS & CO.,
Chemists.

COST OF WATER WORKS.

The cost of the Water Works is as follows:—

| | |
|--|-------------|
| Amount paid George H. Norman, contract Dec. 7, | |
| 1869, (Main, etc. to W. Lynde's), | \$12,300 00 |
| Contract May 10, 1870, distribution | |
| pipes, | 47,500 00 |
| 1,189 ft. 6 in. distribution pipe, extra | |
| at \$1.30 | 1,546 70 |
| 23,552 ft. 4 in. distribution pipe, | |
| extra, at .97, | 22,845 44 |
| 4,280 ft. 2 in. distribution pipe, extra, | |
| at .65, | 2,782 00 |
| 35 hydrants, extra, | 2,000 00 |
| 11 gates and boxes, extra, | 418 00 |
| Gate-house, one-half of cost, | 900 00 |

| | | |
|--|---|--------------|
| Amount paid | Bill of service pipes, | \$9,494 19 |
| | 1 hydrant at J. Lynde's, | 60 00 |
| | Pipe for same, | 14 00 |
| | | <hr/> |
| | | \$99,860 33 |
| Amount paid | Franchise, etc., | 247 00 |
| | A. F. Sargent, engineering, | 500 00 |
| | A. W. Haskell, printing record | |
| | books, etc., | 53 60 |
| | New Eng. Lith. Co., Bonds, | 74 00 |
| | W. H. Smith, seal, | 22 50 |
| | J. A. Fairbanks, canvassing, | 20 00 |
| | Ellis & Co., service pipes, | 165 88 |
| | G. W. Bartlett, carriages, | 15 00 |
| | J. R. Nichols & Co., analysis, | 23 50 |
| | H. T. Mills, engineer, one-third, | 10 00 |
| | T. McCoubrey, tools, | 7 00 |
| | G. Wheeler, horse, | 12 00 |
| | Small Bros., lumber, | 4 20 |
| | E. H. Goss, services, | 75 00 |
| | Sundry small expenses, | 43 55 |
| | | <hr/> |
| | | \$101,133 56 |
| Less amount received and due from water-takers | | |
| for service pipes, estimated, | | \$4,500 00 |
| | | <hr/> |
| | Total | \$96,663 56 |

(Mr. Jeremiah Martin's claim for services as Superintendent, \$815.00.)

In conclusion your Commissioners congratulate the citizens of Melrose in the possession of Spot Pond water for domestic uses.

Respectfully submitted,

WINGATE P. SARGENT
JEREMIAH MARTIN,
DEXTER BRYANT,
ELBRIDGE GREENE,
JOEL SNOW,

Water Commissioners.

MELROSE, March 20, 1871.

APPENDIX

A.

AN ACT

TO INCORPORATE THE SPOT POND WATER COMPANY.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows.

SECTION 1. Samuel E. Sewall, Daniel W. Gooch and George W. Heath, of Melrose, Elisha S. Converse, J. H. Abbott and George P. Cox, of Malden, and James O. Curtis, Charles V. Bemis and Benjamin F. Hayes, of Medford, their associates and successors, are hereby made a corporation by the name of the Spot Pond Water Company, for the purpose of supplying the inhabitants of said Melrose, Malden and Medford with pure water; with all the powers and privileges, and subject to all the restrictions, duties and liabilities set forth in the general laws which are now or may hereafter be in force relating to such corporations, so far as they may be applicable.

SECTION 2. Said corporation may take, hold and convey through the town of Stoneham, so far as may be necessary, and to, into and through the said towns of Melrose, Malden and Medford, the waters of Spot Pond, so called, situate in the towns of Stoneham and Medford, and the waters which flow into and from the same.

SECTION 3. The capital stock of said company shall not exceed three hundred thousand dollars, to be divided into

shares of one hundred dollars each ; and said company may hold real and personal estate not exceeding in amount one hundred thousand dollars, and may also take and hold, by purchase or otherwise, such land as may be necessary for erecting and maintaining dams and reservoirs, and for laying and maintaining conduits, pipes, drains, and such other works as may be necessary for the purity and preservation of said waters, and for collecting, conducting and distributing the same as herein provided. But said company shall not enter upon or use, for the purpose herein specified, the land of any person, or take water from said pond, until thirty thousand dollars in cash have been paid in upon the capital stock of said corporation.

SECTION 4. Said company within sixty days after the taking of any of the land aforesaid, shall file in the registry of deeds for the county of Middlesex a description thereof, sufficiently accurate for identifying the same.

SECTION 5. Said company may make aqueducts, from the source above mentioned through any part of the towns aforesaid, and may maintain the same by suitable works, may make reservoirs and hydrants, and may distribute the water throughout said towns of Melrose, Malden and Medford by laying down pipes, and may establish the rents therefor. And the said company, for the purposes aforesaid, may enter upon and dig up any road, under the direction of the selectmen of said towns respectively, in such manner as to cause the least hindrance to the travel thereon.

SECTION 6. All claims for damages sustained by taking land, water or water-rights, or by making aqueducts, reservoirs or other works, shall be ascertained, determined and recovered, in the manner now provided by law in case of land taken for highways, except that the complaint may be filed within three years after said taking.

SECTION 7. Any person who shall maliciously divert the water, or any part thereof, of the sources which shall be taken by said corporation, pursuant to the provisions of this act, or who shall corrupt the same, or render it impure, or who shall maliciously destroy or injure any dam, reservoir, aqueduct, pipe or hydrant, or other property held, owned or used by the said company for the purposes of this act, shall pay three times the amount of actual damage to the said company, to be recovered by any proper action; and every such person, on conviction of either of the malicious acts aforesaid, may be punished by fine not exceeding one hundred dollars, and imprisonment not exceeding six months.

SECTION 8. The said towns of Melrose, Malden and Medford, or any two of them, in case the remaining town declines to participate in said purchase, may, at any time within fifteen years from the time this act takes effect, purchase the franchise of said corporation and all its corporate property by paying therefor the amount expended for the construction, maintenance and repairs of said water works, and all necessary incidental expenses, together with interest thereon, at the rate of ten per centum per annum, less the amount derived therefrom, with interest thereon at the rate aforesaid. And in case the said towns cannot agree as to the portion of said amount to be paid by each, the supreme judicial court, or any justice thereof, upon application of either town, so purchasing, shall appoint three commissioners to award the amount so to be paid by each, which award shall be final.

SECTION 9. For the purpose of defraying the cost of such franchise and corporate property as shall be purchased for the purposes aforesaid, each of the towns, so purchasing shall have authority to issue, from time to time, notes, scrip or certificates of debt, to be denominated on the face thereof "Spot Pond Water Scrip," to an amount not exceeding the

proportion payable by each such town, bearing interest payable semi-annually, and the principal shall be payable at periods not more than twenty years from the issuing of the said scrip, notes or certificates respectively; and such town may sell the same, or any part thereof, from time to time, at public or private sale, for the purpose aforesaid, on such terms and conditions as such town shall deem proper. And each of such towns, so purchasing, is further authorized to make appropriations and assess from time to time, such amounts, not exceeding in any one year the sum of five thousand dollars, towards paying the principal of the money so borrowed, and also a sum sufficient to pay the interest thereon, in the same manner as money is assessed and appropriated for other town purposes.

SECTION 10. In case the towns of Melrose, Malden and Medford, or any two of them, shall purchase the property, rights and privileges of said company, said towns so purchasing, shall exercise all the rights, powers and authority, and be subject to all the restrictions, duties and liabilities herein contained, in such manner, and by such officers, servants and agents as said towns shall, respectively, from time to time, ordain, appoint and direct. And said towns shall be liable to pay all damages occasioned by the diversion of any water, or the obstruction of any stream, or the flowing of any lands for the purposes of said aqueduct, for which said company might be legally liable; the amount payable by each town to be determined in the same manner as provided in the eighth section of this act for determining the amount payable by such town for the purchase of the franchise and corporate property therein mentioned.

SECTION 11. Said company shall not at any time draw the waters of said pond below low-water mark of said pond, nor raise them above high-water mark.

SECTION 12. A commission of three persons shall be

appointed by the supreme judicial court, or any justice thereof, on application of said company, or of any party in interest, who shall, at the cost and expense of said company, after public notice to the parties in interest, ascertain the points between which the waters of said pond and its outlet rise and fall, and shall erect permanent monuments showing the same, and shall make a full report of all their doings to the supreme judicial court.

SECTION 13. Nothing in this act contained shall be so construed as to prevent or interfere with the right of the town of Stoneham to take water from said Spot Pond for the use of the inhabitants of said town. And said company may furnish water to such inhabitants of said town as may desire the same, at the same rates as to the inhabitants of other towns.

Approved May 4, 1867.

B.

AN ACT

IN ADDITION TO AN ACT TO INCORPORATE THE SPOT POND
WATER COMPANY.

Be it enacted etc., as follows:

SECTION 1. The purchase of the franchise, property, rights and privileges of the Spot Pond Water Company by the towns of Melrose, Malden and Medford, and the transfer and conveyance thereof by said corporation to said towns, is hereby ratified and confirmed; and said towns may take and hold the waters of Spot Pond, so called, situated in the towns of Stoneham and Medford, and the waters which flow into and from the same, and may convey the same through the town of Stoneham, so far as may be

necessary, and to, into and through the towns of Melrose, Malden and Medford. For this purpose, said towns may each construct an aqueduct, and any two, or all of them, if they so agree, may unite and jointly construct aqueducts, from the source above mentioned, through any part of the towns aforesaid, and may maintain the same by suitable works, may make reservoirs and hydrants, and may distribute the water throughout said towns of Melrose, Malden and Medford by laying down pipes, and may each from time to time establish prices or rents for the supply or use of such water within its own limits; and for this purpose shall, in addition to the rights already conferred upon said towns, and whether acting separately or in conjunction, have, exercise and enjoy all the powers, rights and authority conferred upon the Spot Pond Water Company by the act to which this act is in addition; subject to the limitations, obligations and restrictions in said act contained, except as is herein otherwise provided, and except the limitations contained in the third section of said act. But in case two separate aqueducts shall be constructed from said pond, — one from the north-easterly side of the pond, through Melrose and Malden, and one from the southerly side of the pond to Medford, — said town of Medford shall lay down from its main a pipe of not less than eight inches in diameter, to the line of Malden, at the junction of Salem Street in said Medford and Pleasant Street in said Malden; and said town of Malden shall lay down, from its main to the same point, a pipe of not less than eight inches in diameter, which two pipes shall there unite: *provided*, that in case it shall at any time appear to a commission appointed as provided in the fourth section of this act, that the supply of water to either of said towns is impaired by reason of such open connection, so that either town does not receive its full proportion of one-third of the

water, said commission may make such orders as to closing such connection entirely or for a portion of the time, as may be required to secure to said town the supply and head of water unimpaired thereby.

SECTION 2. Said towns, and each of them, may, for the purpose of this act, and the act to which this act is in addition, take by purchase or otherwise, and hold such land as may be necessary for erecting and maintaining dams and reservoirs, and for laying and maintaining conduits, pipes, drains and such other works as may be necessary for the purity and preservation of said waters, and for collecting, conducting and distributing the same as herein provided. And within sixty days after the taking of any of the land aforesaid, said town or towns taking the same shall file in the registry of deeds for the southern district of the county of Middlesex, a description thereof sufficiently accurate for identifying the same. All claims for damages sustained by taking land, water or water-rights, or by making aqueducts, reservoirs or other works, shall be ascertained, determined and recovered, in the manner now provided by law in case of land taken for highways, except that the complaint may be filed within three years after said taking. And the liability of said towns for taking such water or water-rights shall be joint and equal, and for other acts in which they or any two of them shall join as provided in the first section of this act, shall be joint on the part of the towns participating, and each town shall be severally liable for its separate acts.

SECTION 3. For the purpose of defraying the cost of such franchises, property, lands, water and water-rights, as are taken, purchased or held for the purposes aforesaid, and of constructing works necessary and proper for the accomplishment of the purposes authorized by this act and by chapter two hundred and eight of the acts of the year eighteen hundred and sixty-seven, and paying all expenses incident

thereto, each of said towns may issue from time to time, scrip, notes or certificates of debt: the town of Melrose, to an amount not exceeding one hundred thousand dollars; the town of Malden to an amount not exceeding two hundred thousand dollars, and the town of Medford to an amount not exceeding one hundred and fifty thousand dollars. Such scrip issued by the town of Melrose shall be denominated on its face, Melrose Water Fund Bonds; that issued by the town of Malden shall be denominated on its face, Malden Water Fund Bonds, and that issued by the town of Medford shall be denominated Medford Water Fund Bonds. All such scrip shall bear interest, payable semi-annually, and the principal shall be payable at periods not more than twenty years from the issuing of the said scrip, notes or certificates respectively; and each such town may sell the same, or any part thereof, from time to time, at public or private sale, for the purpose aforesaid, on such terms and condition as such town shall deem proper. And each of such towns is further authorized to make appropriations, and assess from time to time such amounts as it may from year to year decide, not exceeding in any one year prior to the year in which the bonds mature, the sum of five thousand dollars, towards paying the principal of the money so borrowed, and also a sum sufficient to pay the interest thereon, in the same manner as money is assessed and appropriated for other town purposes.

SECTION 4. The general regulation and control of the waters in said pond, and of the letting down of the same, shall be exercised and administered by a joint board, composed of the officers or agents of each town, who shall, from time to time, be appointed by said towns, under authority of the provisions of chapter two hundred and eight of the acts of the year eighteen hundred and sixty-seven and this act, in which board each town shall have an equal

power and authority ; and, in case said towns so acting cannot agree in respect to the manner of securing, from time to time, an equal share of the water of said pond to each town, the supreme judicial court, or any justice thereof, upon application of either town by their agents or officers appointed as aforesaid, shall appoint three commissioners to award and determine the method in which such supply shall be secured and the share of the expense thereof to be borne by each town, and this award, when confirmed by said court, shall be conclusive upon said towns.

SECTION 5. The acts and proceedings of the town of Melrose, at its town meetings, held on the twenty-fourth day of September, in the year eighteen hundred and sixty-nine, and on the seventh day of October, in the year eighteen hundred and sixty-nine ; of the town of Malden, at its town meetings, held on the thirteenth day of September, in the year eighteen hundred and sixty-nine, and on the twenty-seventh day of September, in the year eighteen hundred and sixty-nine, and of the town of Medford, at its town meetings, held on the twentieth day of September, in the year eighteen hundred and sixty-nine, and on the twenty-eighth day of January, in the year eighteen hundred and seventy, and, by adjournment, on the first day of February, and on the ninth day of February, each in said year of eighteen hundred and seventy, and the acts and doings of the officers and agents appointed at said meetings, or either of them, in pursuance of the authority then given them, and in execution of the purposes of this act and the act to which this act is in addition, so far as the same may appear to be invalid from any want of authority on the part of said towns, are hereby authorized, ratified and confirmed.

SECTION 6. The commissioners already chosen by said towns, together with any successor chosen to fill a vacancy in the boards occasioned by resignation or otherwise, shall

severally hold their office and exercise the powers conferred upon them by their respective towns, and the provisions of this act, and the act to which this is an addition, until their successors are regularly chosen and qualified. At the annual town meeting held in the year eighteen hundred and seventy-one there shall be elected in each of said towns, in the manner in which selectmen are by law required to be elected, a board of three water commissioners of the town, one of whom shall be elected to serve for the period of one, two and three years respectively. And annually, thereafter, there shall be elected in the same manner a number equal to the number whose term of service then expires. All such officers so chosen shall hold office until their successors are chosen and qualified in the manner required by law for selectmen of towns, and vacancies occurring in the board in any town shall be filled by the remaining member or members of the board and the selectmen of the town, in the manner now provided by law for filling vacancies occurring in the board of school committee of towns. The remaining member or members of the board shall in such case exercise the powers of the board till the vacancy is filled. The boards of water commissioners so chosen shall in each town have the general care and custody of the aqueduct and water-works of the town and the property connected therewith. They shall annually make a report to the town of their doings and the condition of the property under their control, with such recommendations as they shall judge the interests of the town require.

SECTION 7. The surplus of the net income derived from said water-works after payment of the semi-annual interest upon said scrip, and after deducting all charges of distribution and repairs, and other expenses incident to the same, and all amounts appropriated from time to time by said towns for the payment of the principal sum thereof, under

the provisions of this act, shall, in each town, be set apart as a sinking fund, which, with the accumulated interest upon the same, shall be devoted to the payment of said scrip of said town at maturity.

The rents received for the use of water shall, in the case of each town when collected, be paid over to the treasurer of the town, and all sums set apart as aforesaid, shall from time to time be invested and re-invested by him in the name of the town of Medford, town of Melrose, or town of Malden, as the case may be, in the scrip authorized by this act, at a price not exceeding its par value, or on such loans or in such securities as by law the funds of savings banks may be invested in, except that no portion of the same shall be loaned directly or indirectly to either of said towns, or upon mere personal security.

SECTION 8. The accounts of such sinking funds shall be kept apart from the other accounts of the town, and in each town shall at all times be open to the inspection of the water commissioners of said town. The treasurer of each town shall annually make a written report to the town, at its annual meeting, of the condition of the fund of the town, and the changes of investment during the then preceding year. The selectmen and water commissioners shall jointly, as often as once in each year, examine the accounts and securities of the fund, and shall report the result of their examination to the town, in connection with the report of the treasurer.

SECTION 9. This act shall take effect upon its passage.

Approved April 2, 1870.

C.

AN ACT

RELATING TO DRAINAGE IN THE TOWNS OF MALDEN AND
MELROSE.

Be it enacted, etc., as follows:

SECTION 1. The county commissioners of the county of Middlesex are hereby authorized and directed to take and lay out such land, water-courses and water rights, dams and other real estate, or interests, or easements, or rights therein, on or adjoining the streams or brooks running from Ell Pond in Melrose and Spot Pond in Stoneham, to the tide-water in Malden, as they shall deem necessary for the purposes of proper drainage and public health; and they are also authorized, for the same purposes, to control the damming up and letting off the waters of said ponds. And they may change, widen, straighten and deepen the channels of said brooks or streams, and remove all dams and other obstructions therefrom, and use and appropriate said brooks or streams, in such manner as they shall deem necessary for the purposes aforesaid. And if any person shall sustain damages to his property by reason thereof, and shall fail to agree upon the amount of the same, and to affect a settlement therefor with said commissioners, which they are hereby authorized to make, the same shall be determined, assessed and collected in the same manner as now provided by law for the determination, assessment and collection of damages in the laying out of highways.

SECTION 2. Every person holding real estate upon or near said brooks, which may be benefited by the acts of the commissioners herein before authorized, shall pay to the treasurer of the town in which said real estate shall be situated,

such sum as said commissioners shall assess upon him as his proportionate share of the expenditure for the purposes aforesaid. And the sum so assessed upon him shall constitute a lien upon said real estate for two years from and after the time of such assessment. And if the amount so assessed shall not be paid within ninety days after notice thereof, the same may be levied by a sale of said real estate, to be conducted in the same manner as a sale of real estate for the non-payment of taxes.

SECTION 3. Said commissioners shall determine and award what proportion of the whole expenses, incurred for the purposes aforesaid, shall be assessed upon the Boston and Maine Railroad Corporation, and what proportion upon the towns of Malden and Melrose respectively. And said towns are hereby authorized and directed to raise the amount so assessed in the same manner as money is now raised by law for highways. But said towns may borrow the amounts so assessed upon them, or any part thereof, on such terms and for such periods of time, as shall be determined by a majority of those voting at any town meeting legally held for that purpose.

SECTION 4. The said commissioners shall, immediately after they have determined the amount of expenses, as herein before provided, notify said towns and said railroad corporation of the amounts assessed upon them respectively. And if said towns and railroad corporation, respectively, shall not make payment as ordered by said commissioners within ninety days after service of said order, or notice, the said commissioners shall issue their warrant of distress against said corporations for the amount assessed thereon, together with interest upon the same from the time it was payable, and reasonable costs. And the same shall be enforced and collected in the same manner as orders by county commissioners are now by law enforced.

SECTION 5. Any person or corporation aggrieved by the doings of the commissioners, as herein before authorized, may, at any time within three months from the time of receiving notice of any assessment, apply for a jury to award the amount that shall be paid, in the manner provided in the sixth section of the forty-eighth chapter of the General Statutes; and the proceedings upon his said application shall be such as are therein provided.

SECTION 6. The powers conferred upon said commissioners shall not be exercised unless the town of Malden or the town of Melrose shall, by a majority of those voting at a town meeting legally held for that purpose within one year from the passage of this act, approve the same. And if either of said towns shall fail to approve this act in manner aforesaid, then no greater sum shall be assessed upon such town for the expenses aforesaid than the amount assessed under the provisions of this act upon the real estate lying in such town, as being specially benefited by such improvements.

SECTION 7. This act shall take effect upon its passage.

Approved June 11, 1869.

D.

AN ACT

IN ADDITION TO AN ACT RELATING TO DRAINAGE IN THE
TOWNS OF MALDEN AND MELROSE.

Be it enacted, etc., as follows:

SECTION 1. The time within which the towns of Malden and Melrose may approve the act relating to drainage in said

towns, being chapter three hundred and seventy-eight of the acts of eighteen hundred and sixty-nine, is hereby extended one year.

SECTION 2. This act shall take effect upon its passage.

Approved May 9, 1870.

